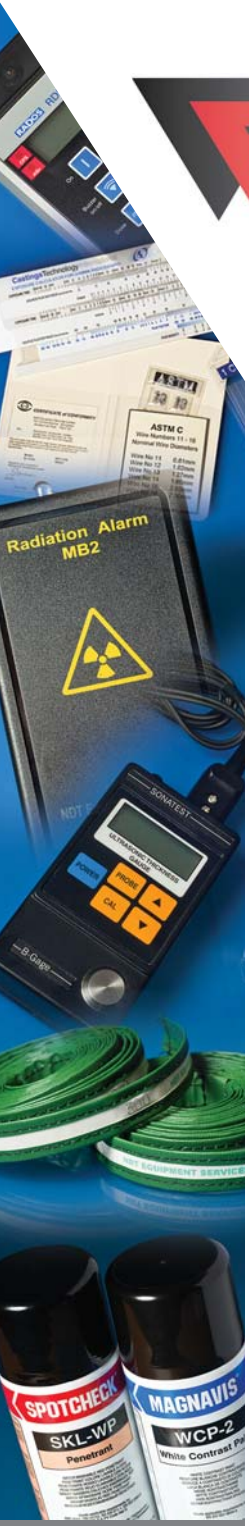

NDT EQUIPMENT SERVICES LTD. GLOBAL

NDT GLOBAL SERVICES

Issue: November 2013

Product Guide

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NDT Global Services Limited is a company specialising in providing a broad spectrum of inspection and test equipment for inspection companies, process plant, manufacturing and service industries for a worldwide market.

The company operates in conjunction with a worldwide network of representatives and has supplied equipment to over 50 countries.

We are pleased to provide this copy of our Product and Price guide, which contains details of our extensive range of products, equipment and servicing. In general the prices of items are included. For the more complex equipment with different options of supply, please contact our office where a specific price can be quoted for your requirements.

The company's personnel have many years' experience and depth of knowledge in most areas of NDT and Inspection. We are pleased to offer advice on equipment requirements and problem solving.

We offer to our customers:

- Excellent Technical Support and Advice
- A Comprehensive Product Range
- Personal Attention to Individual Customer Needs

Should you not see the product you require or need further information on any of the products listed in this catalogue, please do not hesitate to contact our sales offices direct.

Prices shown in this catalogue are for guidance only and were correct at time of printing. ALL prices in UK (£) Pounds Sterling are ex-Works, unless otherwise stated.

NDT Global Services Limited
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SALES – HIRE – SERVICE – CALIBRATION – CALIBRATION BLOCKS - SYSTEMS

NDT EQUIPMENT ~~EQUIPMENT~~ GLOBAL SERVICES LTD.

NDT GLOBAL SERVICES

DELIVERY TERMS & CONDITIONS

In these conditions of Sale "The Seller" is NDT Global Services Ltd

Carriage & Insurance

Inspection equipment is fragile; therefore, occasional damage during transit is possible.

We do not insure goods whilst in transit unless specifically requested to do so.

Goods that are ordered and dispatched without insurance immediately become the customer's responsibility; "the seller" is not in any way liable for uninsured goods. Please ask for an insurance quote when you place your order.

Claims:

a) Any consignment not delivered within 14 days of the date on "the seller's" invoice must notify "the seller" in writing.

b) We recommend that when you sign the carrier's delivery note you mark the items as, "NOT INSPECTED".

c) We advise that you inspect your goods immediately after delivery to ensure that all parts are present and correct. Any damage or missing parts must be advised to both "the seller" and carrier in writing within 3 days of receipt, please ensure that the goods, all outer casings and other wrappings are available for inspection by "the seller" or their representative, you will also need to be in possession of your delivery note marked "NOT INSPECTED".

d) "The seller" will not accept returned goods unless a prior written agreement has been made between "the seller" and the customer. Any goods being returned despite being correctly supplied to the customer's specification will be subject to a 20% re-stocking charge.

NDT EQUIPMENT SERVICES LTD. GLOBAL

NDT GLOBAL SERVICES

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GAMMA RAY EQUIPMENT

Iridium 192 Projectors & Accessories		
Cat Number		**Price**
	880 Projector, maximum capacity either 50ci Elite 130ci Sigma, 150ci Delta	£9000.00
Controls and Accessories		
TAN25664	664 Cable Reel/Hand crank with 25` cables	£2552.55
TAN25693	693 Pistol Grip Hand crank with 25` cables	£1755.60
	664 Windout Fully Refurbished	POA
	Full Gamma System 660 Projector, 664 Windout, Snout Tube, Extension Tube (Refurbished)	POA
	Automatic Windout Control – Gamma drive	POA
Drive Cables, Source Tubes and Stops		
NDT Manufacture	Source Guide Tube with Fixed Stop 2.1m	£99.00
NDT Manufacture	Source Guide Tube Extension 2.1m	£99.00
48906 Original AEA Product	Source Guide Tube with Fixed Stop 2.1m	£160.45
48907 Original AEA Product	Source Guide Tube Extension 2.1m	£160.45
88081	Guide Tube Swivel Adaptor, enables standard guide tube to fit 880 projector	£80.00
	Corbin Key	£20.00
	Full size dummy source for 660	POA
52401-1	Shipping Plug with wire storage plug	POA
66001-39	Storage Cover with chain	POA
55008	GO/NO GO Gauge	£25.00
	660 Side Plates	POA
Source Positioning and Centering Tubes and Stops		
	3 Prong Clamp	£9.00
	Boss Head	£9.00
	Retort Base	£19.00
	Retort Rod	£12.00
Collimators		
	Mini Lead Collimator	£100.00
TCN714	Mini Lead Collimator with 60 degree conical beam	£205.00
TCN799	Type 6 Mini Tungsten Collimator, side port 60 degree cone.	£330.00
NDT Manufacture	Mini Tungsten Collimator	£210.00
Other Collimators are available on request		

660 Projectors

Guide Tubes

664 Windout

693 Pistol Grip

Mini Tungsten Collimator

880 Projectors

RADIATION SAFETY

Personal Dosimeters and Monitors		Price
	Quartz Fibre Pocket Dosimeter 0-200mR	£130.00
	Charger for Quartz Fibre Pocket Dosimeter	£160.00
EPD Mk2	Electronic Personal Dosimeter	POA
ACT5	Reader for Electronic Personal Dosimeter	POA
EASY EPD 2	Software for the Electronic Personal Dosimeter Reader	POA
Personal Alarms		
	MB4 Personal Radiation Alarm	£120.00
	Bleeper III	£192.50
	Bleeper SV	£267.50
	Bleeper SV-SW	£291.25
Survey Meters		
ND1000SA	Radiation Survey Meter (Analogue)	£714.40
RDS31	Digital Multi-purpose Radiation Survey Meter c/w Cal. Cert	£1011.25
ND2000A	Analogue Radiation Monitor c/w Cal. Cert	£750.00
	Other Types Are Available	
Intrinsically Safe Survey Meter		
PRI190 - ATX	Tracerco Radiation Monitor. Three ranges 0-100, 0-1000 0-10,000mSv/h. Group + Category 11 2 G	POA
Portable Warning Equipment		
	MB40 Portable Radiation Warning System	£780.00
	Extension Beacon for above (Single Red Beacon)	£185.00
	Foghorn Hand Held Warning Siren Operated By Compressed Air Canister	POA
	Spare Canister for above	POA
	Mini Flashing Lamp c/w 9 volt Battery	£12.40
HL-95	Hazard Warning Lamp c/w Special Air Depolarised Battery	POA
	Status Enunciator c/w Lamp Failure Interrupt, 2 x Enunciator and Interface	POA
	As above with additional Siren Failure Interrupt	POA
	Radiographic Facility Alarm	POA

MB4

Bleeper SV

MB40

Quartz Fibre Dosimeter Pocket Charger

RADIATION SAFETY

Handling Tongs and Lead Shot		
Cat Number	**Description**	**Price**
	Handling Tongs 100cm long	£34.00
	Handling Tongs 150cm long	£38.00
	Handling Tongs 200cm long	£42.00
	Other Sizes Available	
Barriers		
	Barrier Rope 6mm diameter, 110 metre roll	£21.00
	Radiation Warning Banner, 10m long x 100mm wide Warning Message and Trefoil, any language	POA
	Radiation Barrier Tape Continuously printed with trefoil and 'Stop Radiation Keep Out' 40mm x 50m English or English/Arabic	£44.00
	As above complete with Windout Dispenser	£71.50
Exposure Accessories		
	S.C.R.A.T.A. Gamma Ray Exposure Calculator, Metric Scale Mk.V111 – New Slide Rule Design (Cobalt 60, Iridium 192, Ytterbium 169)	£40.00
	Gamma Ray Exposure Calculator for use with Agfa Films (Iridium / Cobalt)	£25.90
	Adhesive Black Lightproof Tape 50mm x 50 metre roll	£8.00
	Adhesive Black Waterproof Tape 50mm x 50 metre roll	£7.90
	Adhesive Masking Tape 25mm x 50 metre roll	£1.20
	Adhesive Masking Tape 50mm x 50 metre roll	£2.10
	Chinagraph Pencils, Yellow (Box 12)	£11.00
WWL	Warehouse Marking Crayons, Yellow (Box 12)	£2.10
WWT	Timber Marking Crayons, Yellow (Box 12)	£2.60
WBA	Paint Marker, White (3mm Ball)	£3.40
750	Permanent Paint Marker, White, Medium Conical Fibre Tipped	£2.75
	Other Markers and Colours available to order	
	Pressident Marking System	£355.00
	Pressident Tape	£12.00
	Elastic Straps (Bungy Band) 12" length	£1.85
	Elastic Straps (Bungy Band) 18" length	£2.50
	Elastic Straps (Bungy Band) 24" length	£3.00
	Cassette Clamping Magnets, Film Bridge Type, Per Pair	£55.00
Lead Vinyl Flexible Sheet		
PB25	Pale Green 0.25mm Pb (100 x 60cm)	POA
PB50	Beige 0.50mm Pb (100 x 60cm)	POA
PB10	Yellow 1.00mm Pb (100 x 60cm)	POA
Lead Aprons		
SS310	Single (Front only) 0.35mm Pb, Length 100cm	£119.00
DS310	Double Sided 0.35mm Pb, Length 100cm	£196.60
	Astrolight Safety Gloves 0.50mm PB/Rubber (Pair, size Medium)	£160.00
	Safety Glasses (No side PB)	£125.00

Metric Scale Mk V111

Safety Glasses

Radiation Barrier Tape

RADIATION SIGNS

Radiation Signs

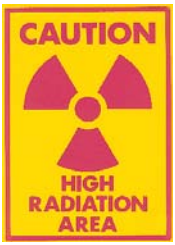
Rectangular signs in white PVC printed in red, yellow and black.
Trefoil warning signs are in yellow and black.
Prohibition signs are in red and black.
Each has a space for the name of the Radiation Protection Supervisor and his telephone number. All of the signs are to the same basic design, conforming to the current ionising radiations regulations. They differ in the wording beneath the trefoil and in the prohibition.
Signs are illustrated on the following page.

Cat Number	Description	Size	Price
70721	Rigid	320mm x 400mm	£16.00
70722	Self Adhesive	320mm x 400mm	£8.36
70723	Rigid	320mm x 400mm	£16.00
70724	Self Adhesive	320mm x 400mm	£8.36
70725	Rigid	320mm x 400mm	£16.00
70726	Self Adhesive	320mm x 400mm	£8.36
70727	Rigid	320mm x 400mm	£16.00
70728	Self Adhesive	320mm x 400mm	£8.36
70729	Rigid	320mm x 400mm	£16.00
70730	Self Adhesive	320mm x 400mm	£8.36
Square sign in white PVC printed in black and yellow. This sign has a black ISO trefoil, triangle and has NO lettering. The inside of the triangle is yellow.			
70731	Rigid	300mm x 300mm	£12.24
70732	Self Adhesive	300mm x 300mm	£3.77
Rectangular sign in white PVC printed in black and yellow. This sign has a black ISO trefoil, triangle and lettering. The inside of the triangle is yellow.			
70733	Rigid	300mm x 450mm	£14.28
70734	Self Adhesive	300mm x 450mm	£7.74
Rectangular sign in flexible yellow PVC to USA Standard. Black ISO trefoil symbol and magenta lettering for threading onto barrier rope.			
70708	Welded	205mm x 285mm	£2.08
70709	Welded	205mm x 285mm	£2.08
70710	Velcro	205mm x 285mm	£3.10
70711	Velcro	205mm x 285mm	£3.10
Rectangular warning pennant in yellow, flexible PVC. This sign has a black ISO trefoil, triangle and lettering for threading onto barrier rope.			
70735	Welded	205mm x 285mm	£2.08
70736	Velcro	205mm x 285mm	£3.10
Rectangular sign printed in English/Arabic. Yellow laminate with red trefoil and black printing.			
70712	Self Adhesive	380mm x 430mm	£11.10
70713	Welded	380mm x 430mm	£11.84
70714	Rigid	380mm x 430mm	£15.93
Vehicle Warning Signs			
70716	Self Adhesive	250mm x 250mm	£1.91
70717	Rigid	250mm x 250mm	£6.12
70715	Magnetic	250mm x 250mm	£11.08
In accordance with The Radioactive Material (ROAD TRANSPORT) Regulations 2002 Orange Plate			
70718	Magnetic	300 x 250mm (For large van)	£20.86
70719	Magnetic	300 x 120mm (For small van/car)	£11.02

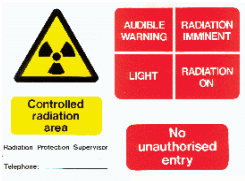
RADIATION SIGNS

Cat 70708 – Welded
Cat 70710 – Velcro

Cat 70709 – Welded
Cat 70711 – Velcro



Cat 70727 – Rigid
Cat 70728 – Self Adhesive



Cat 70729 – Rigid
Cat 70730 – Self Adhesive

Cat 70725 – Rigid
Cat 70726 – Self Adhesive

Cat 70735 – Welded
Cat 70736 - Velcro

Cat 70731 – Rigid
Cat 70732 – Self Adhesive

Cat 70733 – Rigid
Cat 70734 – Self Adhesive

Cat 70721 – Rigid
Cat 70722 – Self Adhesive

Cat 70723 – Rigid
Cat 70724 – Self Adhesive

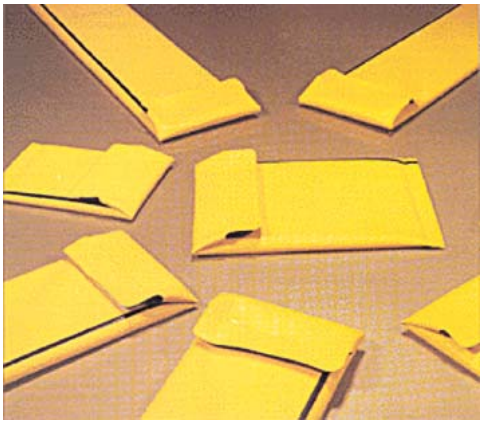
Vehicle Radiation Signs
Cat 70715 – Magnetic
Cat 70716 – Self Adhesive
Cat 70717 – Rigid

PLASTIC CASSETTE INFORMATION

Plastic Cassettes
All types of Single-Envelope Plastic Cassettes are of the same design. They consist of a single envelope, open at one end, through which film and screens are loaded and unloaded. The open ends of the envelopes fold over, producing an effective light seal. They are then held closed by means of VELCRO' nylon fastener. There is an extra finger-tab at the bottom to assist in holding the cassette to the bench for easier and quicker unloading. Closure is normally made on the shorter side of a rectangular cassette, special versions, with the opening on the long side, can be made to order.
STANDARD SINGLE ENVELOPE CASSETTES These are made from 400 micron black PVC and have become, over the years, the standard cassette for industry. We do not recommend their use in very cold weather and advise great care in loading and unloading them in sub-zero temperatures.
REINFORCED SINGLE ENVELOPE CASSETTES These are made from thin, yet strong PVC/Nylon/PVC laminated material. The nylon reinforcement is in the form of a mesh and reduces the tendency of the PVC to split at the seams after much use. The PVC laminate retains its flexibility in cold climates. Reinforced cassettes are therefore more suitable for use at low temperatures than the standard type.
ONE SEAM SINGLE ENVELOPE CASSETTES These represent the first major advance in cassette design since the introduction of 'VELCRO' fastening. Constructed in rugged nylon-reinforced PVC, they are made to outlast any other type of flexible cassette. They are constructed without side-seams, there is just one joint on the back of the cassette. This design overcomes the weakness of other single envelopes that are welded along the sides; there is no tendency to split. The Cassettes are made from specially - formulated, heavy-duty, nylon-reinforced PVC. They are black on the inside for light-tightness and yellow on the outside for easy recognition.
HEAVY DUTY SINGLE ENVELOPE CASSETTES These are made from double-thickness material consisting of one layer of standard PVC and one layer of the nylon-reinforced material. This combination produces a cassette capable of withstanding very tough treatment at normal temperatures.
DOUBLE ENVELOPE CASSETTES These consist of two plain black envelopes without any means of closure. Film and screens are loaded into the inner envelope, the smaller of the two. This is then inserted, open end first, into the larger outer envelope. Light – tightness is assured due to the open end of the inner is up against the closed end of the outer. They are made from the standard 400 micron material and are clearly marked 'INTEX BACK' on both the inner and the outer envelope for easy identification in the darkroom and out on site. The main advantage of Double-Envelope Cassettes is that they lie perfectly flat, having no fold-over ends or 'VELCRO' fastening.

RADIOGRAPHIC ACCESSORIES – CASSETTES

SIZE	STANDARD	NYLON	ONE SEAM	DOUBLE	HEAVY DUTY
5 x 20cm	£1.46	£2.09	£2.59	£2.26	£2.71
5 x 40cm	£1.71	£2.51	£3.20	£2.77	£3.38
6 x 24cm	£1.65	£2.34	£2.91	£2.60	£3.05
6 x 40cm	£1.89	£2.74	£3.49	£3.08	£3.69
6 x 48cm	£2.00	£2.93	£3.77	£3.31	£4.00
7 x 40cm	£2.03	£2.92	£3.70	£3.33	£3.92
7 x 48cm	£2.16	£3.14	£4.03	£3.60	£4.28
9 x 12cm	£1.80	£2.41	£2.89	£2.81	£3.00
10 x 20cm	£2.07	£2.80	£3.41	£3.31	£3.57
10 x 24cm	£2.13	£2.90	£3.55	£3.43	£3.72
10 x 40cm	£2.43	£3.42	£4.29	£4.04	£4.54
10 x 48cm	£2.64	£3.76	£4.79	£4.44	£5.08
13 x 18cm	£2.37	£3.12	£3.74	£3.80	£3.91
15 x 40cm	£3.32	£4.60	£5.79	£5.62	£6.12
18 x 24cm	£3.25	£4.29	£5.21	£5.36	£5.45
18 x 43cm	£3.80	£5.20	£6.52	£6.45	£6.91
20 x 30cm	£3.78	£5.06	£6.23	£6.35	£6.56
24 x 30cm	£4.48	£5.97	£7.37	£7.55	£7.74
30 x 40cm	£5.77	£7.72	£9.60	£9.78	£10.15
35 x 43cm	£6.99	£9.40	£11.77	£11.85	£12.48
Canvas Cassette 70mm x 20 metre Roll – Side Seam					POA



RADIOGRAPHIC ACCESSORIES – SCREENS - MARKERS

Lead Intensifying Screens. 125/.125mm Thick			
Size	**5 Pair Pack**	**10 Pair Pack**	**25 Pair Pack**
5 x 20cm	£14.10	£21.96	£45.53
5 x 40cm	£21.18	£34.70	£75.28
6 x 24cm	£18.01	£29.21	£62.79
6 x 40cm	£25.68	£43.08	£95.28
6 x 48cm	£28.62	£48.69	£108.88
7 x 40cm	£29.97	£51.03	£114.22
7 x 48cm	£33.64	£58.04	£131.23
9 x 12cm	£17.62	£28.34	£60.50
10 x 20cm	£21.18	£34.70	£75.28
10 x 24cm	£23.33	£38.81	£85.25
10 x 40cm	£33.78	£58.07	£130.94
10 x 48cm	£38.09	£66.29	£150.88
13 x 18cm	£26.82	£45.04	£99.73
15 x 40cm	£45.70	£80.50	£184.89
18 x 24cm	£44.09	£77.42	£177.41
18 x 43cm	£60.59	£108.73	£253.16
20 x 30cm	£45.70	£80.50	£184.89
24 x 30cm	£52.16	£92.82	£214.80
30 x 40cm	£80.39	£146.31	£344.05
35 x 43cm	£95.29	£174.61	£412.57
Other thicknesses are available. Please ask for further information			

Lead Markers, Sharp Faced, Un-mounted	**Price Each**
6mm (1/4”) A-Z	£0.10
6mm (1/4”) 0-9	£0.10
6mm (1/4”) Arrow symbol	£0.16
10mm (3/8”) A-Z	£0.16
10mm (3/8”) 0-9	£0.16
10mm (3/8”) Arrow symbol	£0.18
13mm (1/2”) A-Z	£0.21
13mm (1/2”) 0-9	£0.21
13mm (1/2”) Arrow symbol	£0.23
Plastic, Marker Storage Box, 40 compartments	£60.00
Other lead marker sizes available to order	

Lead Numbers

RADIOGRAPHIC ACCESSORIES – MARKER TAPES

Lead Marker Tapes

Marker Tapes are placed around the circumference of weld, adjacent to weld seam. Small lead numerals at 2, 5 or 10cms, inside heat resistant cloth/plastic tape are clearly visible in processed radiographs for the accurate location of suspect areas in welds for investigation or repair.

Length	2cm Spacing	5cm Spacing	10cm Spacing
0.5m	£9.55	£4.85	
1m	£19.30	£9.75	£6.15
1.5m	£30.00	£14.55	£9.50
2m	£40.75	£19.45	£12.85
2.5m	£50.25	£24.30	£16.20
3m	£59.85	£29.15	£19.50
3.5m	£69.40	£34.05	£22.30
4m		£38.85	£26.20
5m		£48.60	£32.85
6m		£58.30	£39.50
7m		£68.00	£46.15
8m		£77.80	£52.85
9m		£87.50	£59.45
10m		£100.80	£68.75
12m		£120.95	£81.55
15m		£156.25	£102.60
20m		£211.60	£136.45

Marker tapes can be produced to any length/increment. Prices available on application

Magnetic Marker Tapes

These are made from hard, yet flexible magnetic rubber faced with white PVC. Embossed lead identification markers are placed either at 5 or 10cm intervals. The markers are thick enough to ensure visibility on the radiograph without causing glare. They adhere firmly to all ferrous surfaces and do not require two-man operation.

Sizes and prices are available on application.

Lead Tapes

RADIOGRAPHIC ACCESSORIES – IQI's

Image Quality Indicators

EN 462 – 1

Each indicator consists of a series of seven parallel wires of different thickness and 10, 25 or 50mm long mounted between two thin sheets of transparent, flexible PVC. A lead monogram indicates the numbers of the thinnest and the thickest wires, the material and includes the EN symbol.

Model	Price	Model	Price
1 FE EN 10mm	£11.81	6 FE EN 10mm	£9.97
1 FE EN 25mm	£11.81	6 FE EN 25mm	£9.97
1 FE EN 50mm	£11.81	6 FE EN 50mm	£9.97
1 AL EN 10mm	£11.81	6 AL EN 10mm	£9.97
1 AL EN 25mm	£11.81	6 AL EN 25mm	£9.97
1 AL EN 50mm	£11.81	6 AL EN 50mm	£9.97
1 CU EN 10mm	£11.81	6 CU EN 10mm	£9.97
1 CU EN 25mm	£11.81	6 CU EN 25mm	£9.97
1 CU EN 50mm	£11.81	6 CU EN 50mm	£9.97
10 FE EN 10mm	£9.66	6 TI EN 10mm	£48.26
10 FE EN 25mm	£9.66	6 TI EN 25mm	£48.26
10 FE EN 50mm	£9.66	6 TI EN 50mm	£48.26
10 AL EN 10mm	£9.66	13 FE EN 10mm	£13.01
10 AL EN 25mm	£9.66	13 FE EN 25mm	£13.01
10 AL EN 50mm	£9.66	13 FE EN 50mm	£13.01
10 CU EN 10mm	9.66	13 AL EN 10mm	14.00
10 CU EN 25mm	9.66	13 AL EN 25mm	14.00
10 CU EN 50mm	9.66	13 AL EN 50mm	14.00
10 TI EN 10mm	48.26	13 CU EN10mm	14.00
10 TI EN 25mm	48.26	13 CU EN 25mm	14.00
10 TI EN 50mm	48.26	13 CU EN 50mm	14.00
		13 TI EN 10mm	50.96
		13 TI EN 25mm	50.96
		13 TI EN 50mm	50.96

1 FE EN		6 FE EN		10 FE EN		13 FE EN	
No.	Wire Diameter (mm)	No.	Wire Diameter (mm)	No.	Wire Diameter (mm)	No.	Wire Diameter (mm)
1	3.20	6	1.00	10	0.40	13	0.20
2	2.50	7	0.80	11	0.32	14	0.16
3	2.00	8	0.63	12	0.25	15	0.125
4	1.60	9	0.50	13	0.20	16	0.100
5	1.25	10	0.40	14	0.16	17	0.080
6	1.00	11	0.32	15	0.125	18	0.063
7	0.80	12	0.25	16	0.100	19	0.050
Use for material 40 – 160mm thick		Use for material 12.5 – 50mm thick		Use for material 5 – 20mm thick		Use for material 2.5 – 10mm thick	

RADIOGRAPHIC ACCESSORIES – IQI's

Image Quality Indicators

DIN 54 109

Each indicator consists of a series of seven parallel wires of different thickness and 10, 25 or 50mm long mounted between two thin sheets of transparent, flexible PVC. A lead monogram indicates the numbers of the thinnest and the thickest wires, the material includes the DIN symbol.

Model	Price	Model	Price
1 FE DIN10mm	£9.88	6 FE DIN 10mm	£8.01
1 FE DIN 25mm	£9.88	6 FE DIN 25mm	£8.01
1 FE DIN 50mm	£9.88	6 FE DIN 50mm	£8.01
1 AL DIN 10mm	£9.88	6 AL DIN 10mm	£8.01
1 AL DIN 25mm	£9.88	6 AL DIN 25mm	£8.01
1 AL DIN 50mm	£9.88	6 AL DIN 50mm	£8.01
1 CU DIN 10mm	£9.88	6 CU DIN 10mm	£8.01
1 CU DIN 25mm	£9.88	6 CU DIN 25mm	£8.01
1 CU DIN 50mm	£9.88	6 CU DIN 50mm	£8.01
10 FE DIN 10mm	£7.59	13 FE DIN 10mm	£11.16
10 FE DIN 25mm	£7.59	13 FE DIN 25mm	£11.16
10 FE DIN 50mm	£7.59	13 FE DIN 50mm	£11.16
10 AL DIN 10mm	£7.59	13 AL DIN 10mm	£12.19
10 AL DIN 25mm	£7.59	13 AL DIN 25mm	£12.19
10 AL DIN 50mm	£7.59	13 AL DIN 50mm	£12.19
10 CU DIN 10mm	£7.59	13 CU DIN 10mm	£12.19
10 CU DIN 25mm	£7.59	13 CU DIN 25mm	£12.19
10 CU DIN 50mm	£7.59	13 CU DIN 50mm	£12.19

1 DIN FE		6 DIN FE		10 DIN FE		13 DIN FE	
No	Wire Diameter (mm)	No	Wire Diameter (mm)	No	Wire Diameter (mm)	No	Wire Diameter (mm)
1	3.20	6	1.00	10	0.40	13	0.20
2	2.50	7	0.80	11	0.32	14	0.16
3	2.00	8	0.63	12	0.25	15	0.125
4	1.60	9	0.50	13	0.20	16	0.100
5	1.25	10	0.40	14	0.16	17	0.080
6	1.00	11	0.32	15	0.125	18	0.063
7	0.80	12	0.25	16	0.100	19	0.050
Use for Material 40-60mm thick		Use for Material 12.5 – 50mm thick		Use for Material 5 – 20mm thick		Use for Material 2.5 – 10mm thick	

Image Quality Indicators

RADIOGRAPHIC ACCESSORIES – IQI's

Image Quality Indicators

Each indicator consists of a series of six parallel wires of different thickness and 25 or 50mm long mounted between two thin sheets of transparent, flexible PVC.

Lead characters identify the wire thickness and the material. The letters ASTM are also included.

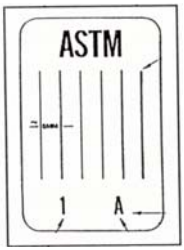
Standard	Model	Wire Length	Price
ASTM E – 747-97	Set A (FE)	50mm	£12.54
	Set B (FE)	50mm	£12.54
	Set C (FE)	50mm	£12.54
	Set D (FE)	50mm	£30.93
Standard	**Model**	**Wire Length**	**Price**
ASTM E – 747-97	Set A (AL)	50mm	£13.76
	Set B (AL)	50mm	£13.76
	Set C (AL)	50mm	£18.97
Standard	**Model**	**Wire Length**	**Price**
ASTM E – 747-97	Set A (CU)	50mm	£13.76
	Set B (CU)	50mm	£13.76
	Set C (CU)	50mm	£18.97
Standard	**Model**	**Wire Length**	**Price**
ASTM E – 747-97	Set A (TI)	50mm	£50.01
	Set B (TI)	50mm	£50.01

Wire Diameters (mm)

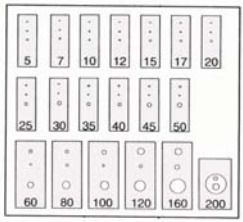
Set A	0.08	0.10	0.13	0.16	0.20	0.25
Set B	0.25	0.33	0.40	0.51	0.64	0.81
Set C	0.81	1.02	1.27	1.60	2.03	2.50
Set D	2.50	3.20	4.06	5.10	6.40	8.00

ASTM indicators are also available in 25mm lengths (with the exception of set D). Prices on request.

Certificates of conformity are available for DIN 54 109 and ASTM on request. Price per Indicator £1.00.



Hole Type IQI's
P.O.A



RADIOGRAPHIC FILM QUALITY CONTROL

GE Inspection Technologies (AGFA)			
Ref:	**Description**	**Size**	**Price**
28UHD	AGFA D7 Film (Box 100 sheets) FW	9 x 12cm	£77.23
31RWN	AGFA D7 Film (Box 100 sheets) FW	10 x 20cm	£138.97
28UMM	AGFA D7 Film (Box 100 sheets) FW	10 x 24cm	£149.80
28UQU	AGFA D7 Film (Box 100 sheets) FW	10 x 40cm	£233.16
27K1Z	AGFA D7 Film (Box 100 sheets) FW	10 x 48cm	£292.33
27K58	AGFA D7 Film (Box 100 sheets) FW	13 x 18cm	£146.10
27K9H	AGFA D7 Film (Box 100 sheets) FW	15 x 40cm	£343.94
28UYC	AGFA D7 Film (Box 100 sheets) FW	18 x 24cm	£251.40
28U3L	AGFA D7 Film (Box 100 sheets) FW	18 x 43cm	£421.45
27LDS	AGFA D7 Film (Box 100 sheets) FW	24 x 30cm	£403.69
27LH1	AGFA D7 Film (Box 100 sheets) FW	30 x 40cm	£667.20
27LMA	AGFA D7 Film (Box 100 sheets) FW	35 x 43cm	£858.11
27J78	AGFA D7 Rollpac PB (With lead screens)	70mm x 90m	£712.67
28LUZ	AGFA D7 Rollpac PB (With lead screens)	100mm x 90m	£971.97
Full AGFA Film range available. Details on request.			
KODAK Industrial X-Ray Films			
Ref:	**Description**	**Size**	**Price**
6095954	KODAK AA 400-1 Film (box 100 sheets) NIF	9 x 12cm	£60.44
5269618	KODAK AA 400-1 Film (box 100 sheets) NIF	10 x 24cm	£134.30
5229760	KODAK AA 400-1 Film (box 100 sheets) NIF	10 x 40cm	£223.83
5229786	KODAK AA 400-1 Film (box 100 sheets) NIF	15 x 40cm	£324.73
6095699	KODAK AA 400-1 Film (box 100 sheets) NIF	24 x 30cm	£386.74
6095707	KODAK AA 400-1 Film (box 100 sheets) NIF	30 x 40cm	£637.88
6549471	KODAK AA 400-1 Film (box 100 sheets) NIF	35 x 43cm	£817.87
5230214	KODAK AA 400-382 Film Leadpack Roll (with Lead screens)	70mm x 100m	£738.46
5230222	KODAK AA 400-382 Film Leadpack Roll (with Lead screens)	100mm x 100m	£999.75
Full KODAK Film range available. Details on request.			
Quality Control			
A simple method to determine Archival Quality of a processed X-ray film. Also indicates badly fixed and/or Washed films which may require additional treatment.			
Structurix Thio-Test Kit (Colour Comparator Set) requires:			
Cat Number	**Description**		**Price**
3M2HM	Thiotest Reagent 35cc		£5.70
FT5AL	Thiotest Colour Comparator		£48.10
3UEPB	Structurix Certified Denstep (Certified Traceable to NBS)		£140.75
Exposed, unprocessed PMC Strips in individual daylight packing used to Monitor the performance of Processed Chemical solutions for high quality processing			
3Q210	Processor Monitoring Control (PMC) Strip (Box 50)		£110.60

RADIOGRAPHIC ACCESSORIES – CHEMICALS

GE Inspection Technologies (AGFA)		
Ref:	**Description**	**Price**
35WGB	G135S Starter (4 x 5 litres)	£32.00
HNKDU	G135 Developer (2 x 5 litres to make 40 litres) Auto Processing	£51.30
38WRN	G335 Fixer (2 x 5 litres to make 40 litres) Auto Processing	£36.55
35TBN	G128 Developer (4 x 5 litres to make 100 litres) Manual Processing	£71.95
35TAL	G328 Fixer (4 x 5 litres to make 100 litres) Manual Processing	£72.00

KODAK X-Ray Processing Chemicals			
Ref:	**Description**	**Size**	**Price**
5155924	Kodak INDUSTREX MANUAL DEVELOPER	2 x 20 litres	£63.57
Pack 2 x 20 Litre			
505.2584	Kodak INDUSTREX MANUAL FIXER	2 x 20 litres	£33.26
Pack 2 x 20 Litre			
5155924	Kodak INDUSTREX DEVELOPER/REPLENISHER		£63.57
Pack 2 x 20 litres			
8351413	Kodak INDUSTREX DEVELOPER STARTER		£22.88
Bottle 1.2 Litre			
5288998	Kodak INDUSTREX FIXER/REPLENISHER		£38.67
Pack 2 x 20 Litres			

RADIOGRAPHIC ACCESSORIES – FILM PROCESSING

Channel Hangers (Slide in) Stainless Steel

Films are held within grooves along both sides and bottom edge and secured by a hinged flap along the top edge. Films must be removed from the Channel Hanger before placing in a dryer in order to avoid drying marks.

Size	Description	Single	Triple
9 X 12cm	Channel Hanger	£40.00	n/a
10 X 24 cm	Channel Hanger	£41.00	£95.00
10 X 40 cm	Channel Hanger	£42.00	£100.00
10 X 48 cm	Channel Hanger	£43.00	£105.00
15 X 40 cm	Channel Hanger	£44.00	n/a
18 X 24 cm	Channel Hanger	£44.00	n/a
24 X 30cm	Channel Hanger	£48.00	n/a
30 X 40 cm	Channel Hanger	£49.00	n/a
35 X 43cm	Channel Hanger	£50.00	n/a

Other sizes available POA

Processing Spirals (Spools) Stainless Steel

For roll film 70mm wide, any length up to 5 metres maximum

Spiral Loader	Price
For processing spool 70mm x 3m	£100.60

Size	Description	Price
70 mm x 3m	Roll Film Processing Spiral	£69.70
70 mm x 5m	Roll Film Processing Spiral	£75.95
100mm x 3m	Roll Film Processing Spiral	£73.45
100mm x 5m	Roll Film Processing Spiral	£78.55
12” length	Processing Spiral Rod	£20.10
25” length	Processing Spiral Rod	£27.35
30” length	Processing Spiral Rod	£29.30

Processing Accessories	Description	Price
	Film Drying Clip with hook	£2.90

Processing Tanks

Capacity		Grey PVC	Stainless Steel
13.5 litres	3 Gallons	£55.00	POA
22.5 litres	5 Gallons	£61.80	POA
45.0 litres	10 Gallons	£67.20	POA

Processing Tank Lids

Capacity		Grey PVC	Stainless Steel
13.5 litres	3 Gallons	£21.50	POA
22.5 litres	5 Gallons	£21.95	POA
45.0 litres	10 Gallons	£24.70	POA

RADIOGRAPHIC EQUIPMENT – FILM PROCESSING

Manual Film Processing Units				
Rigid PVC material with thermostatically controlled heater and digital temperature display. Prices include PVC tanks listed below. Requires suitable cold water and power supply.				
Model GP2				**Price**
Developer	1 x 22.5L (5 gallon) with lid	Final Wash 250mm length		
Stopbath	1 x 13.5L (3 Gallon)	Dimensions 920 x 670 x 880mm		
Fixer	1 x 22.5L (5 gallon)	Shipping 1040 x 880 x 1130mm	107kg	£2097.00
Model GP3A				
Developer	1 x 22.5L (5 gallon) with lid	Final Wash 345mm length		
Sprayrinse	1 x 22.5L (5 gallon)	Dimensions 1220 x 680 x 880mm		
Fixer	2 x 22.5L (5 gallon)	Shipping 1350 x 800 x 1130mm	203kg	£2557.50
Model GP3C				
Developer	1 x 45L (10 gallon) with lid	Final Wash 215mm length		
Stopbath	1 x 45L (10 gallon)	Dimensions 1220 x 680 x 880mm		
Fixer	1 x 45L (10 gallon)	Shipping 1350 x 800 x 1130mm	203kg	£2457.00
Auto				
NDT U Automatic Film Processor				
Processes sheet film and roll film of any length				POA
NDT M Desk Top Automatic Film Processor				
Processes sheet film and roll film upto 5 metres long				POA
Packing & Shipping to UK address extra (approx. £130.00)				

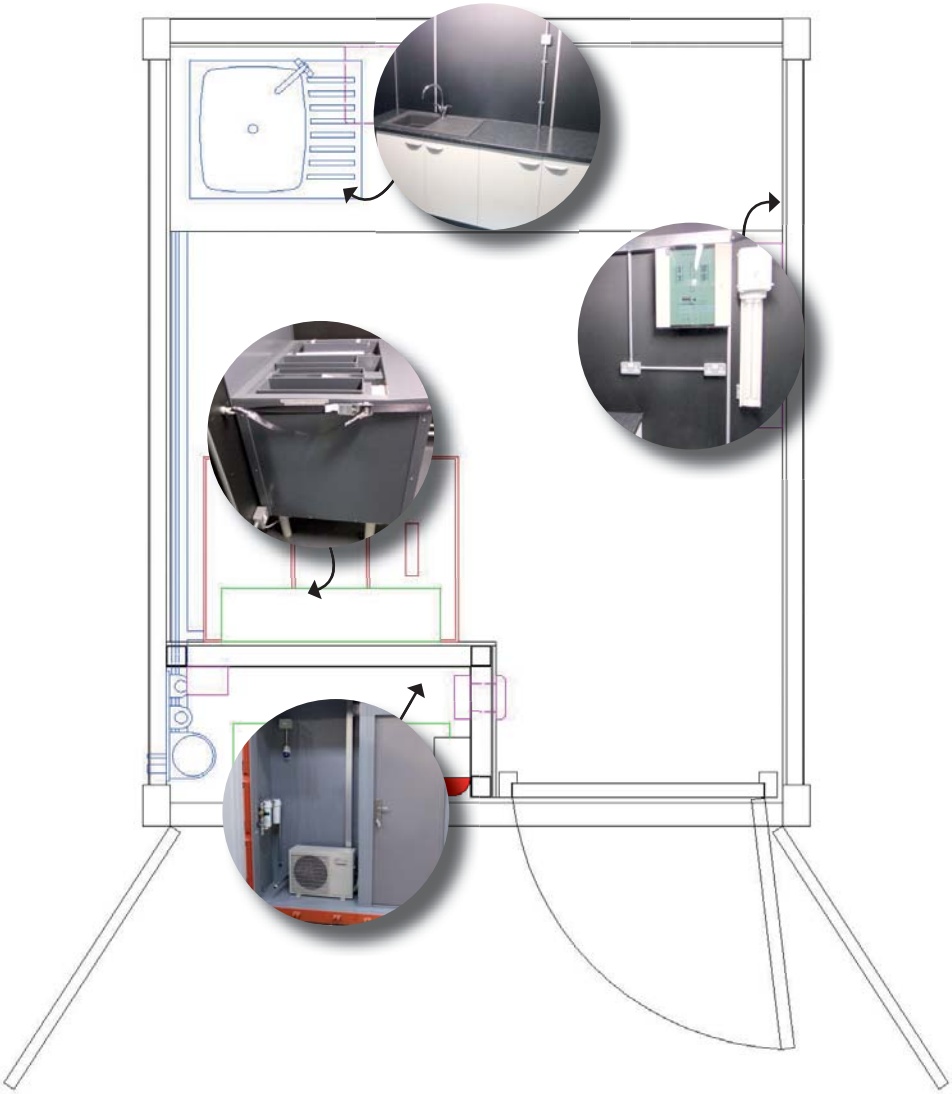
NDT U
(Automatic Film Processing Unit)

GP
(Manual Film Processing Unit)

STATIC OR MOBILE DARKROOMS

Bespoke darkrooms manufactured to customer specifications:

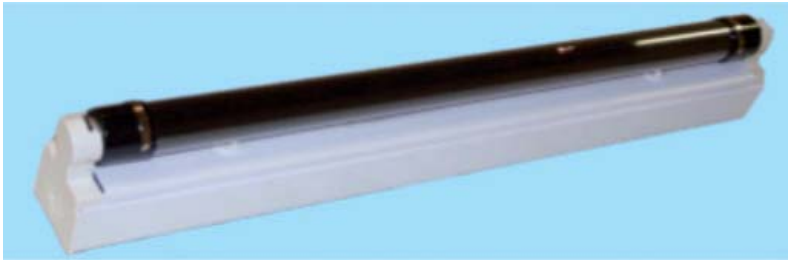
- On Shore
- Off Shore
- Static
- Mobile
- Tow along



Made to order: Please call for further information
Telephone: +44 (0)1642 555575

RADIOGRAPHIC EQUIPMENT – LAMPS, DRYERS, SUNDRIES

Safelamps & Filters		**Price**
	2' Fluorescent Safe Light complete with fixings (other sizes available on request)	£81.50
	Spare UV Tube for Above Other sizes available on request)	£45.00
Sundry Items		**Price**
	Tank Syphon, Plastic	POA
	Immersion Heater, 500 watt, 240 volt, figure '8' type	£307.75
	Mixing Paddle, Plastic	£24.60
Other Sizes Available	Film 'Squeegee', Approx 9" Rubber Blade	£30.00
	Stirring Type Digital Thermometer	£10.00
	Dark Room Wall Clock (Luminous Figures & Hands)	£35.00
	Count Down Digital Timer	£14.00
	Analogue Darkroom Timer	£25.00
Bench Type	Robust Stop Clock, 150mm dial, 0-60 seconds, 0-60 minutes, Quartz Movement	POA
	Film Storage Box for 70mm Roll Films with 25 compartments	£5.50
	Light Operated Film Marker	£300.00
Film Dryers		**Price**
EWTHW	Structurix DR Roller Film Dryer, 63cm x 60cm x 35cm 220/240v 50/60Hz or 120v 60Hz	£3661.00



Darkroom Safelight

Auto Film Dryer

RADIOGRAPHIC EQUIPMENT – VIEWERS, DENSITOMETERS, METERS

Luminance

The screen luminance required depends on the density of the radiographs. The following luminance levels are recommended for the perception of information at various levels. The luminance (or brightness) of the illuminated radiograph shall be not less than:

30 cd/m2 for film densities < 2.5

10 cd/m2 for film densities > 2.5

and wherever possible, approximately 100 cd/m2 or higher. These minimum values require the following screen luminance's.

Film Density	Minimum Screen Luminance cd/m2
1	300
1.5	1,000
2	3,000
2.5	10,000
3	10,000
3.5	30,000
4	100,000
4.5	300,000

Cat Number	Film Viewers	Price
	Lumin S Executive High Intensity Viewer (Density 3.5)	£395.00
	Lumin S 500 Film viewer (Density 3.0)	£210.00
	Kowolux Model 3 Film viewer (Density 4.4)	£1485.00
	Spare Tube for Lumin S viewers	£7.50
	Spare Bulb for Kowolux Model 3 viewer	£71.50

Cat Number	Light Meters	Price
ISO TECH 1337	White Light Meter c/w Calibration Certificate	£195.00
J221	UV Light Meter	£362.50

Kowolux film Viewer

iso Tech 1337

Lumin S

DENSITOMETERS

	Densitometers and Density Strips	Price
	DDS2 Digital Densitometer	£290.00
	Digit-X Densitometer	£433.00
	X-Rite 301X	£1647.00
	X-Rite 341 Densitometer	POA
	Calibrated Density Comparison Strip	£66.85
	AGFA Calibrated Denstep	£140.75
	Kodak Density Stepwedge 0.2-40 With Certification	£209.44

Densitometer DDS2

X-Rite 301

Agfa Density Stepwedges

INSPECTION MIRRORS – MAGNIFIERS – VELCRO TAPES

Inspection Mirrors	Description	Price
	Telescopic Handle/Pocket type, 32mm diameter Mirror	£5.00
	Telescopic Handle/Pocket Type, 50mm x 100mm Mirror	£7.50
	Inspection Mirrors and parts	
	❖ Battery Handle c/w Batteries	£18.60
	❖ Light Probe 'STAYPUT' Flexible Section 150mm, Rigid 200mm length	£16.30
	❖ Probe Extension Piece, Rigid 380mm length	£14.60
	❖ Mirror, Articulated, 38mm diameter	£13.90
	❖ Mirror, Articulated, 65mm diameter	£14.20
	❖ Mirror, Articulated, 65 x 115mm	£13.90
	❖ Lamp Holder, Fits Handle and Accessories	£8.30

Magnifiers	Description	Price
	Headband Magnifier 2.7x. Adjustable band, can be worn over spectacles – raised or lowered for use, leaves both hands free	£55.00
	Spare lenses for above 1.8x or 3.5x	£21.00
	Magnifying Glass 4" (100mmØ)	£10.00

Velcro Tapes	Description	Price
	Sew on Type, 25mm x 25mts Twin Roll (Hook and Loop) Black	POA
	Sew on Type, 50mm x 25mts Twin Roll (Hook and Loop) Black or White	POA
	Self Adhesive, 25mm x 25mts Twin Roll (Hook and Loop) Black	POA
	Self Adhesive, 50mm x 25mts Twin Roll (Hook and Loop) Black or White	POA

Inspection Probes and Mirrors

Head Band Magnifier

MAGNAFLUX PRODUCTS

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Zyglo Water Washable Fluorescent Penetrants			
Part No	**Model**	**Description**	**Price**
056C061	ZL-15B Level	25 Lt	POA
056C062	ZL-15B Level	200 Lt	POA
056C185	ZL-19 Level 1	25 Lt	POA
056C186	ZL-19 Level 1	200 Lt	POA
056C205	ZL-60C Level 2	25 Lt	POA
056C206	ZL-60C Level 2	200 Lt	POA
008A008	ZL-60C Level 2	10 x 400ml Aerosol	POA
056C010	ZL-60D Level 2	25Lt	POA
056C011	ZL-60D Level 2	200Lt	POA
056C032	ZL-67 Level 3	25Lt	POA
056C033	ZL-67 Level 3	200Lt	POA
056C034	ZL-67B Level 3	25Lt	POA
056C035	ZL-67B Level 3	200Lt	POA
056C201	ZL-56 Level 4	25Lt	POA
Post Emulsifiable Fluorescent Penetrants			
Part No	**Model**	**Description**	**Price**
056C079	ZL-2C Level 2	25Lt	POA
056C080	ZL-2C Level 2	200Lt	POA
066C017	ZL-27A Level 3	25Lt	POA
066C016	ZL-27A Level 3	200Lt	POA
008A002	ZL-27A Level 3	10 x 400ml Aerosol	POA
066C020	ZL-37 Level 4	25Lt	POA
066C019	ZL-37 Level 4	200Lt	POA
Part No	**Model**	**Description**	**Price**
065C002	ZR-10C	25Lt	POA
065C003	ZR-10C	200Lt	POA
065C025	ZE-4B	25Lt Emulsifier	POA
Part No	**Model**	**Description**	**Price**
055C022	ZP-4B	1Kg Dry Powder	POA
055C023	ZP-4B	5Kg	POA
055C002	ZP-5B	5Kg Water Suspendible	POA
008A010	ZP-9F	10 x 400ml Aerosol Solvent Based	POA
055C010	ZP14A	5Kg Water Soluble	POA
Part No	**Model**	**Description**	**Price**
007E025	ZA 43 Kit	Carry Case Containing:	POA
		2 x Aerosol SKC-S Cleaner 1 x Aerosol ZL-60C Penetrant 1 x Aerosol ZP-9F Developer 1 x Container ZP-4B Dry Developer 1 x ZB100F Hand Held U.V.(A) Light 1 x Wire Brush 2 x Cloths	

MAGNAFLUX PRODUCTS

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MAGNETIC PARTICLES

Part No	Model	Description	Price
Wet Method Fluorescent Particles			
059C025	14A	1Kg	POA
059C026	14A	5Kg	POA
057C036	MG410	1Kg	POA
Water Suspendible Fluorescent Particles			
Part No	**Model**	**Description**	**Price**
058C031	WB12	10 x 500ml Bottle	POA
Ready To Use MPI Ink (Fluorescent)			
Part No	**Model**	**Description**	**Price**
058C006	14HF	4 x 5 Lt	POA
58C007	14HF	25Lt	POA
008A105	14HF	10 x 400ml	POA
058C016	410HF	25Lt	POA
008A106	410HF	10 x 400ml	POA
Oil Based Carrier For MPI			
Part No	**Model**	**Description**	**Price**
058C024	Carrier II	25Lt	POA
058C028	Carrier II	200Lt	POA
Water Suspendible Particles			
Part No	**Model**	**Description**	**Price**
Ready To Use MPI Ink			
Part No	**Model**	**Description**	**Price**
058C001	7HF	4 x 5Lt	POA
008A103	7HF	10 x 400ml Aerosols	POA
Water Vehicle Conditioners			
Part No	**Model**	**Description**	**Price**
064C015	WA-4E	5Lt	POA
White Contrast Paint			
Part No	**Model**	**Description**	**Price**
055C027	WCP-2	4 x 5Lt	POA
008A009	WCP-2	10 x 400ml Aerosol	POA

MAGNAFLUX PRODUCTS

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WET HORIZONTAL MAGNETIC PARTICLE INSPECTION UNITS

Portable Magnetic Equipment			
Part No	**Model**	**Description**	**Price**
001Y005	YM5	Permanent Magnet Yoke	POA
001M008	PM68	Horse Shoe Magnet	POA
008C020	L-10	Magnetising Coil 110v only 50Hz	POA
001Y025	Y1	Electro-Magnet 230v, 50Hz	POA
001Y024	Y8 Kit	Electro-Magnet 6v DC Battery Operated	POA
001Y018	Y7	Electro-Magnet AC/DC 230v 50/60Hz	POA
Portable Power Packs			
007E005	P920	1500 Amp AC/HWDC 220/240v	POA
027T002		Trolley Unit for Portable Power Pack P920	POA
Mobile Power Packs			
007E218	MAG 50/3H/M	3000 Amp AC/HWDC 380/415v	POA
007E219	MAG 50/5H/M	5000 Amp AC/HWDC 380/415v	POA
Demagnetisers			POA
Full Range Available, Prices and Specifications Available On Request			

Mobile Power Pack

Portable Power Pack

Permanent Magnet

Y7 Series Yoke Electro Magnet Yoke

Y6 Series Yoke Electro Magnetic Units

Air / Water Gun

MAGNAFLUX PRODUCTS

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U.V.(A) [BLACK] LIGHTS AND METERS

UV(A) Light System			
Part No	**Model**	**Description**	**Price**
032B023	ZB100F	Fan Cooled Hand Held 100w UV Light with Control Unit 110, 220 or 240v, 50Hz	POA
032B023A	ZB100F	Fan Cooled Hand Held 100w UV Light with Control Unit 110, 220 or 240v, 60Hz	POA
032B028	ZB35BP	Battery Powered High Output UV(A) Lamp with AC Adapter and Charger 230v, 50/60Hz	POA
032B037	ZB400F	Suspendible UV(A) Light 400w 230v, 50Hz	POA
032B038	ZB250F	Fan Cooled Hand Held 250w Flood UV Light with Control Unit	POA
UV(A) Light Bulbs			
Part No	**Model**	**Description**	**Price**
002L075	ZB100F	100w Medium Base Bulb (For ZB100F)	POA
002L134	ZB135 XHID	Replacement Bulb for UV270 & AB35BP	POA
002L142/3	ZB250F/400F	Replacements Bulb for ZB250F & 400F	POA
Filters			
Part No	**Model**	**Description**	**Price**
008F012		Smooth Filter Glass for 100w Lamps	POA
UV(A) Light Spares			
Part No	**Model**	**Description**	**Price**
003F021		Cooling Fan for ZB100F	POA
005V004		Voltage Selector Only for Control Units (No Fuse Holder)	POA
600063		Medium Base Replacement Socket for ZB100F (511870)	POA
074C126		Thermal Switch, 3 amp (ZB100F Units, from October 1996)	POA
Control Units			
Part No	**Model**	**Description**	**Price**
001T257		Replacement Transformer for ZB100F, 60Hz	POA
001T251		Replacement Transformer for ZB100F, 50Hz	POA
001T250		Replacement Choke for ZB100F	POA
Other UV(A) Light Accessories			
Part No	**Model**	**Description**	**Price**
023A008		Adjustable Fixture for 100w Hand Lamp (Unit Mounting)	POA
023A008B		Adjustable Fixture for 100w Hand Lamp (Bench Mounting)	POA

ZB100F Black Light

MAGNAFLUX PRODUCTS

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WET HORIZONTAL MAGNETIC PARTICLE INSPECTION UNITS

Magnetic Particle Inspection Equipment			
Part No	**Model**	**Description**	**Price**
007E045	MAG 20	220 / 240v 50Hz Power Supply Component Length 550mm 1000 Amp A.C (RMS) Power Output	POA
007E241	MAG 40 HD	380 / 415v 50Hz Power Supply Component Length 1000mm 2500 Amp A.C. (RMS) Power Output 2500 Amp H.W.D.C. (MEGAMPS) Power Output	POA
007E243	MAG 40 HFD*	380 / 415v 50Hz Power Supply 20,000 Ampere – Turns Magnetic Flow Component Length 1000mm 2500 Amp A.C. (RMS) Power Output 2500 Amp H.W.D.C. (MAGAMPS) Power Output	POA
007E224	MAG 50/3H/15	380 / 415v 50Hz Power Supply Component Length 1.5mtr 3000 Amp AC (RMS) Power Output 3000 Amp HWDC (MAGAMPS) Power Output	POA
007E225	MAG 50/3H/20	**As Above,** Component Length 2.0 metres	POA
007E226	MAG 50/3H/25	**As Above,** Component Length 2.5 metres	POA
Optional coil sizes available			POA
007E228	MAG 50/5H/15	380/415v Power Supply Component Length 1.5 metres 5000 Amp AC (RMS) Power Output 5000 Amp HWDC (MAGAMPS) Power Output	POA
007E229	MAG 50/5H/20	As Above, Component Length 2.0 metres	POA
007E230	MAG 50/5H/25	As Above, Component Length 2.5 metres	POA
Optional coil sizes available			POA
007E236	MAG 50/6FR/15	380/415v 3 Phase 50 Hz Power Supply Component Length 1.5 metres 6000 Amp FWDC Power Output	POA
007E237	MAG 50/6FR/20	As Above, Component Length 2.0 metres	POA
007E238	MAG 50/6FR/25	As Above, Component Length 2.5 metres	POA
Optional coil sizes available			POA
Full Range of Magnaflux Products Available, Datasheets and Specification Available On Request.			

MAG 20 Series

MAG40 Series

MAG50 Series

MAGNAFLUX PRODUCTS

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MAGNETIC PARTICLE ACCESSORIES

Magnetic Particle Operating Accessories			
Part No	**Model**	**Description**	**Price**
072S006	MAG 50 Series	Head / Tailstock 'V' Block	POA
Part No	**Model**	**Description**	**Price**
15495A3	MAG 40 Series	Head / Tailstock 'V' Block	POA
Contacts For Wet Horizontal Units			
Part No	**Description**		**Price**
031C003	Double Braided Contact Pad with Neoprene		POA
031C020	Contact Pad MAG 50 Series (Earlier models need 072S006)		POA
031C016	Contact Pad MAG 40 Series (All Versions)		POA
031C014	Contact Pad MAG III		POA
031C010	Contact Pad MAG II & MAG II H		POA
031C012	Contact Pad MAG II F & MAG II HF		POA
20245A2	Lead Contact Plate MAG 50		POA
031C005	Lead Contact Plate (DR,DRC,TACH,TAEH,TAQ & H) Series		POA
023A007	Contact Block (Remote Testing Using Power Pack In Unit)		POA
Other Operating Accessories			
Part No	**Description**		**Price**
028T002	Central Conductor 12mm dia. X 300mm		POA
028T004	Central Conductor 25mm dia. X 600mm		POA
004G006	Magnaglo Applicator for ½" bore hose		POA
Coils			
Part No	**Description**		**Price**
008C033	150mm dia. Coil only – Mag 20 & Mag 40 Series Only		POA
Product Set & Assemblies			
Part No	**Description**		**Price**
001C090	Standard Prod Set with Switch & 4.5m Cable (Eitherend)		POA
001C164	Standard Prod Set with Switch & 4.5m Cable		POA
001C162	Standard Prod Set with Switch & Double 3.75m Cable (Lug)		POA
025T008	Replacement Mild Steel Tips		POA
038P003	Replacement Prod Stem		POA
015S178	Replacement Switch		POA
Contact Clamps			
Part No	**Description**		**Price**
023C002	Spring Loaded Contact Clamp		POA
Cables and Connectors			
Part No	**Description**		**Price**
001C163	3.75m Cable (Lug Both Sides)		POA
001C165	4.5m Cable (Lug Both Sides)		POA
001C166	7.5m Cable (Lug Both Sides)		POA
001C167	9.0m Cable (Lug Both Sides)		POA
001C020	Cable Only (Per Metre)		POA
Other Cable Lengths and Connector Combinations			POA

MAGNAFLUX PRODUCTS

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MAGNETIC PARTICLE ACCESSORIES

Cables Connectors			
Part No	**Model**	**Description**	**Price**
1238		108mm2 Eitherend Connector	POA
1574		Eitherend Lug Adapter 108mm2	POA
1576		Eitherend Lug Adapter, 90 degree, 108mm2	POA
Control Cable			
Part No	**Model**	**Description**	**Price**
001C057		Remote Control Lead with Hand Button	POA
Other Operating Accessories			
Part No	**Model**	**Description**	**Price**
008C039		Split Coil, 300mm Diameter. 108mm2 Cable with Eitherend	POA
008C042		Split Coil, 630mm Diameter. 108mm2 Cable with Eitherend	POA
Wet Particle Bath Sprayers			
Part No	**Model**	**Description**	**Price**
004G004		Magnaglo Hand Sprayer (Polyspray)	POA
Dry Powder Blowers			
Part No	**Model**	**Description**	**Price**
008D003		Powder Spray Bulb (Dispenser)	POA
Test Pieces With Artificial Defects			
Part No	**Model**	**Description**	**Price**
519630	KSC 230	Std QQI Model, Flaw Depth 30% of Shim Thickness	POA
519631	KSC4-230	Std QQI Model, Flaw Depth 30% of Shim Thickness 4 Circles Per Sheet	POA
519632	KSCT-234	Varible Depth QQI Model, Flaws 20%, 30%, 40% of Shim Thickness	POA
008M004	TYPE G	Magnetic Indicator Strips (G) General (5 Pack)	POA
008M005	TYPE A	Magnetic Indicator Strips (A) Aerospace (5 Pack)	POA
026T001	TEST PIECE	Current Flow 0-1000Amp (BS 6072 & RPS 700)	POA
026T003	TEST PIECE	Current Flow 1000-3000Amp (RPS 700)	POA
026T004	TEST PIECE	Current Flow 3000-5000Amp (RPS 700)	POA
026T002	TEST PIECE	Magnetic Flow / Coil (RPS 700)	POA
026T041	TEST PIECE	Magnetic Flow / Coil (BS 6072)	POA
026T006	TAM 150537	Continuous Method Test Block (75130)	POA
026T005	TEST PIECE	Ketos Test Ring (159999)	POA
189838	TEST PIECE	Magnetic Particle Test Bar (MIL STD)	POA
Centrifuge Tubes & MPI Publications			
Part No	**Model**	**Description**	**Price**
020B001		Book – ‘Principles of MPI Testing’	POA

MAGNAFLUX PRODUCTS

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PENETRANT SYSTEMS

Part No	Description	Price
008Z030	Penetrant / Emulsifier Tank	POA
008Z031	Removable Lid	POA
008Z032	Drain Tray & Grille	POA
008Z033	Wash Tank	POA
023A020	Water Wash Only Gun, Regulator & Gauge	POA
023A021	Air / Water Wash Gun, Regulators & Gauges	POA
023A022	Air / Water Wash Gun, Regulators & Gauges Calibrated to R.P.S 702	POA
008Z034	Splash Shield	POA
050P001	UV(A) Light Post Inc. 400W Light	POA
008Z035	Drier Top Loading Must Be Purchased with Developer	POA
008Z036	Developer Top Loading, Must Be Purchased with Drier	POA
008Z037	Inspection Booth c/w ZB100F UV(A) Light	POA
008Z038	Base Tank Grille	POA
008Z039	Clip On Half Grille	POA

Part No	Description	Price
008Z021	Penetrant / Emulsifier Tank	POA
008Z029	Removable Lid	POA
008Z023	Drain Tray & Grille	POA
008Z024	Wash Tank	POA
023A020	Water Wash Only Gun, Regulator & Gauge	POA
023A021	Air / Water Wash Gun, Regulators & Gauges	POA
023A022	Air / Water Wash Gun, Regulators & Gauges Calibrated to R.P.S. 702	POA
023A025	Splash Shield	POA
050P001	UV(A) Light Post Inc. 400W Light	POA
008Z026	Drier Top Loading**	POA
008Z004	Developer Top Loading Non Extract	POA
008Z005	Developer Top Loading With Extract	POA
008Z011	Inspection Booth c/w ZB100F UV(A) Light	POA
15468A2	Base Tank Grille	POA
008Z039	Clip On Half Grille	POA

****A Rest / Drain is Required Between Wash Tank & Drier**

Part No	Description	Price
007Z100	Penetrant or Emulsifier Station	POA
007Z101	Hinged Cover	POA
007Z102	Aluminium Base Grille	POA
007Z103	Drain – Straight Section, Stainless Steel Rollers	POA
007Z105	Rinse Station	POA
007Z107	Hood with UV(A) Strip Light	POA
050P001	UV(A) Light Post Inc. 400W Light	POA
023A020	Water Wash Only Gun, Regulator & Gauge	POA
023A021	Air / Water Wash Gun, Regulators & Gauges	POA
023A022	Air / Water Wash Gun, Regulators & Gauges Calibrated to R.P.S. 702	POA
007Z106	Splash Shield	POA
007Z108	Drier – Top Loading with Pneumatic Lift Lid	POA
007Z111	Dry Developer Storm Cabinet – Top Load with Pneumatic Lift Lid	POA
007Z112	Inspection Booth c/w ZB100F UV(A) light, white light and Vent Axia - Split Roof & Table	POA

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PENETRANT SYSTEMS

Spraying Equipment			
Part No	**Model**	**Description**	**Price**
REA90		Electrostatic Penetrant Spray	P.O.A
PPL1201		Electrostatic Drum Pump Unit (25Ltr)	P.O.A
81-2300		Electrostatic Drum Pump Unit (200Ltr)	P.O.A
EASY 1B		Electrostatic Dry Developer Spray	P.O.A
20L		Hydrophilic Remover Foam Applicator (20Ltr)	P.O.A
50L		Hydrophilic Remover Foam Applicator (50Ltr)	P.O.A

FILTRATION SYSTEMS

Carbon Filter Units			
Part No	**Model**	**Description**	**Price**
009Z001*	S500	Capacity (Nominal) Up To 500Ltr Per Hour Transfer Pump 220/240v, 1 Phase, 50Hz Controls: Motor Starters Float Switches	POA
009Z002*	S500C	Capacity (Nominal) Up To 500Ltr Per Hour Coalescer For Pre-Rinse Oil Separation Transfer Pump 220/240v, 1 Phase, 50Hz Controls: Motor Starters Float Switches	POA
009Z013	S200	Pump Stop / Starter	POA
		Float Switch, (Preventing the pump from running dry) 200 litre maximum tank capacity Re-circulating Pump 200 litre Carbon Drum	

Consumables			
Part No	**Model**	**Description**	**Price**
079C002		Activated Carbon Granules (25Kg Bag)	POA
015F004		Replacement Coalescer Cartridge	POA
015F029	S200	Replacement 200 litre Carbon Drum	POA

ZYGLO ZA-28 Series

MAGNAFLUX PRODUCTS

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SPOTCHECK

Spotcheck Visible Dye Penetrant			
Part No	**Model**	**Description**	**Price**
055C076	SKL-SP2	4 x 5Lt Solvent Removable	POA
008A016	SKL-SP2	10 x 400ml Aerosol	POA
055C071	SKL-WP2	4 x 5ml Water Washable	POA
055C072	SKL-WP2	25Lt	POA
008A1632	SKL-WP2	10 x 400ml Aerosol	POA
Developers			
Part No	**Model**	**Description**	**Price**
055C014	SKD-S2	4 x 5Lt Solvent Based	POA
008A007	SKD-S2	10 x 400ml Aerosol	POA
Cleaners / Removers			
Part No	**Model**	**Description**	**Price**
054C007	SKC-S	4 x 5Lt Solvent Based	POA
054C008	SKC-S	25Lt	POA
008A100	SKC-S	10 x 400 Aerosol	POA
Kits			
Part No	**Model**	**Description**	**Price**
008A038	SK 3 Kit	Soft Carry Case Containing: 3 x Aerosol SKC-S Cleaner 2 x Aerosol SKL-SP1 Penetrant 3 x Aerosol SKD-S2 Developer 1 x Cloth	POA
053C008	SK 3 Kit	Shoulder Carry Case (Soft)	POA

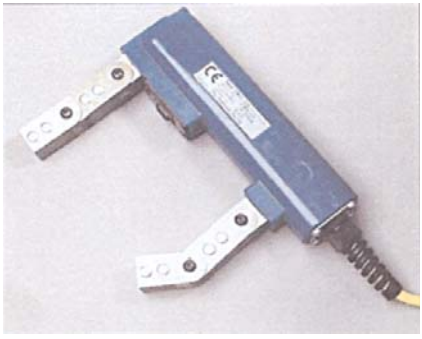
MPI – MAGNETS, YOKES, WEIGHTS

Magnetic Particle Inspection	
Permanent Magnets	**Price**
Medium Size Horse Shoe Magnet (Without Wheels)	£83.50
Large Size Horse Shoe Magnet (Without Wheels)	£132.00
ELYMAG 1 Magnet with Hinged Legs and Adjustable Pole Pieces	£328.30
Fleximag, Magnet with Flexible Handles to allow 360 degree Inspection	£223.25
Polymag, Encapsulated Horse Shoe Magnet	£351.30
Electro Magnetic Yokes	**Price**
Adjustable Yoke 110 volt AC (NOT MAGNAFLUX Y6) ELYMAG	£443.45
Adjustable Yoke 240 volt AC (NOT MAGNAFLUX Y6) ELYMAG	£443.45
Spare Switch Assembly (NOT MAGNAFLUX PRODUCT) ELYMAG	£58.50
Induction Light for Electromagnets (NOT MAGNAFLUX PRODUCT) ELYMAG	£99.00
Magnet Test Weights	**Price**
4.5 kg Electromagnet Test Weight c/w Certificate	£110.00
18 kg Permanent Magnet Test Weight c/w Certificate	£129.00
Other size Test Weights to customer specification	POA

POLYMAG

PERMANENT MAGNET PYM180

FLEXIMAG



ELECTRIC MAGNETIC YOKE

MAGNETIC PARTICLE INSPECTION

Ultra Violet Lamps	Price
B – 100AP UV Lamp, 240 volt	POA
CFL 100F Dual Voltage Ultra Violet Lamp	£741.00
CFL 100F Dual Voltage Ultra Violet Lamp c/w Adjustable Arm	£858.00
Accessories and Spares	**Price**
Spot Lamp H44GS 100w ES Fitting	£78.00
Pear Shaped Lamp HPW 125w ES Fitting or 3 Pin Bayonet Fitting	£60.00
Spare Glass Filter for CFL100F Lamp	£52.65
Spare Filter/Bezel for B-100AP	POA
Spare Finger Guard for B-100AP	POA
Spare Lamp Visor for B-100AP	POA
UVA Absorbing Spectacles	£26.00
Flux Indicators	**Price**
Surecheck Indicators Type 1 (Brass) General	£65.10
Surecheck Indicators Type 2 (Silver) Aerospace	£65.10
Flux Indicator Type 4	POA
Berthold Penetrameter	£223.00
A.S.M.E. Indicator	£214.50
Magnetometers/Field Indicators	**Price**
Model 25 – Magnetometer (calibrated) (20+0-20)	£197.63
GM-1 Digital Gaussmeter (Magnetic Field Gauge) c/w Transverse Probe, Battery, Full Operation Manual, Zero Gauss Chamber & Carry case	£515.00

UV Absorbing Spectacles

CFL 100F Ultraviolet Lamp with Adjustable Arm Attachment

CFL 100F Ultraviolet Lamp

Calibrated Field Indicator

ASME Field Indicator

Berthold Penetrameter

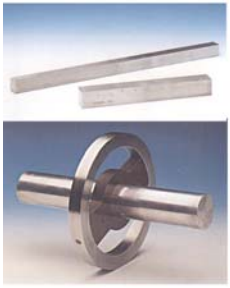
Field Indicators

MAGNETIC PARTICLE - ACCESSORIES

Accessories and Spares	
Description	**Price**
Surcheck Indicators Type I (Brass) General	£65.10
Surcheck Indicators Type II (Silver) Aerospace	£65.10
Flux Indicators Type 4	POA
Berthold Penetrameter	£223.00
A.S.M.E Indicator	£214.50
Centrifuge Tube (ASTM-D96)	£61.00
Pear Shaped Centrifuge Tube	£61.00
Stand for Centrifuge Tube	£26.00
KETOS Test Ring	£345.00
M.T.U Test Piece	£451.00
TPIA Wheel and Bar Test Piece (0-1000 AMPS)	£299.00
TP2A Test Piece (1000-3000 AMPS)	£429.55
TP3A Test Piece (3000-5000 AMPS)	£726.55
TP4 Test Piece (5 Hole)	£206.25
TP5 Test Piece (Magnetic Flow/Coil)	£196.60
Dry Powder Dispenser (Puffer)	£23.00
'Principals of MPI Testing'	POA
1 Litre Magnetic Ink Spray Bottles (Brass Fittings)	£32.40

Can Gun

Powder Dispenser



Test Pieces

Ketos Ring

Centrifuge Tubes

MAGNETIC PARTICLE INSPECTION - CHEMICALS

		Aerosol (10)	Bulk (5lt)
Magnetic Inks		**Price**	**Price**
Supramor 4B Ready to use Black Magnetic Ink		£50.00	Disc.
Contrast Paints		**Aerosol (10)**	**Bulk (5lt)**
WCP712 Ready to use, Acetone Based, Non Strippable		£50.65	POA
WCP722 Ready to use, Acetone Based, Strippable		£64.75	POA
Full Ely Chemical range available. Details on request			
Johnson & Allen			
Magnetic Crack Detection		**Aerosol (10)**	**Bulk 5(5lt)**
NEOCOL B	Magnetic Ink, Black	£60.00	£32.50
NEOASTRA F	Magnetic Ink, Fluorescent	£60.00	£32.50
NEOASTRA DG	Magnetic Ink, Fluorescent	£62.50	£34.20
NEOPAINT NPT16	Contrast Paint, White	£62.00	£46.75
NEOINDUS 1 ES	Contrast Paint Remover	£73.00	£42.00
ECO-2	Contrast Paint, White, Water Based	N/A	£46.80

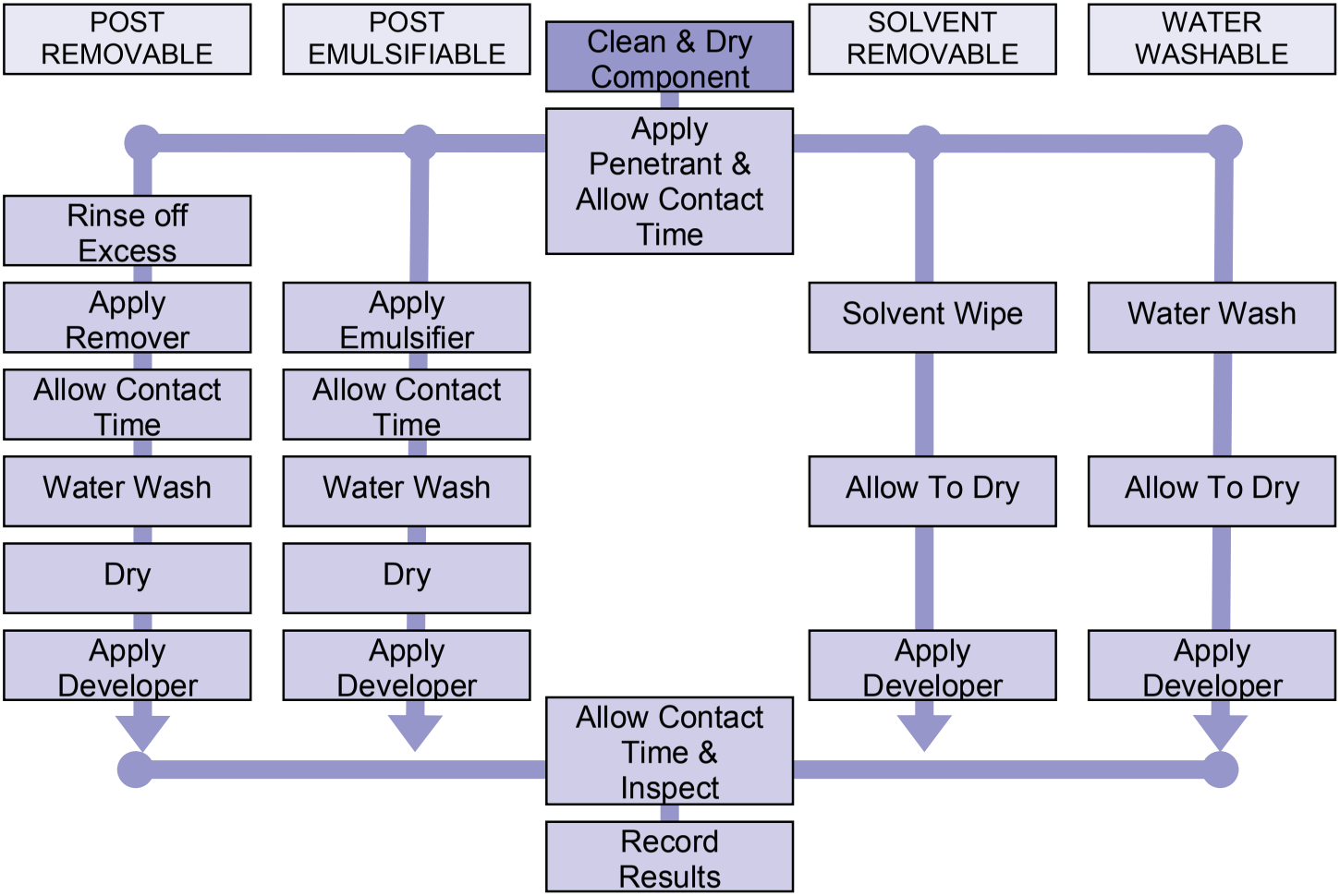
DYE PENETRANT - CHEMICALS

Dye Penetrant Chemicals	Aerosol (10)	Bulk (5lt)
Penetrants	Price	Price
Britemor 4455 Penetrant	£89.20	POA
Checkmor 222 (Solvent Removable/Post Removable/Nuclear Grade)	£63.00	POA
Checkmor 240 Penetrant	£60.00	POA
Removers	**Aerosol (10)**	**Bulk (5lt)**
S76 Quick Drying, Low Toxicity, Low Flashpoint	£52.55	
Developers	**Aerosol (10)**	**Bulk (5lt)**
LD7 Developer	£57.20	POA

DYE PENETRANT – CHEMICALS / TEST EQUIPMENT

Johnson & Allen			
Neopen Penetrant Range		**Aerosol**	**Bulk (5lt)**
JAP	Red Dye Penetrant, Solvent Removable	£71.00	£46.75
JAP-WW	Red Dye Penetrant, Water Washable	£75.50	£58.00
Neopen Cleaner/Remover Range			
JAC-2	Cleaner/Remover	£66.00	£37.95
JAC-3	Cleaner/Remover	£66.00	£37.95
Neopen Developer Range			
JAD	Developer,	£69.95	£42.35
JAD-2	Developer,	£67.00	N/A
Dye Penetrant Test Equipment			**Price**
Aluminium Thermal Quench Block			£67.50
PSM 5, TAM 146040 Panel			POA
Refractometer, Range 0-30% c/w Calibration Certificate			£279.50
SGE 17 Air Water Spray Gun			POA
“Penetrant Testing“ By D.J. Lovejoy			POA

DYE PENETRANT FLOW CHART



CALIBRATION BLOCKS

Ultrasonics – Mild Steel Unless Stated Otherwise		Price
V1/ No 1	A2 With *Carrying Case and Calibration Certificate	£238.00
V1/No 1 (50)	A2 With Calibration Certificate	£238.00
V1/No 1 (SS)	A2 – Stainless Steel – with Carrying Case and Calibration Certificate	£737.00
V1/No 1 (Al)	A2 Aluminium – with Carrying Case and Calibration Certificate	£590.00
V2/ No 2 12.5mm	A4 1.5mm or 5mm Target with *Case and Calibration Certificate	£86.00
V2 (20)	A4 1.5mm or 5mm Target with *Case and Calibration Certificate	£97.00
V2/No 2 (SS) 12.5mm	A4 – Stainless Steel – 1.5mm or 5mm Target, Carrying Case and Calibration Certificate	£295.00
V2/No 2 (Al)	A4 – Aluminium – 1.5mm or 5mm Target, *Carrying Case and Calibration Certificate • 20mm Thick • 12.5mm Thick	 £240.00 £226.00
BCB (IOW)	A5 with* Carrying Case and Calibration Certificate	£267.00
A6	A6 with Calibration Certificate	£182.00
RTB	A7 with Calibration Certificate	£267.00
LSW (1-20)	Ladder Stepwedge with Leather Case and Calibration Certificate	£102.00
LSW (1-20) (SS)	Ladder Stepwedge Stainless Steel – With Leather Carrying Case and Calibration Certificate (Please specify material type)	£253.00
LSW (1-20) (Al)	Ladder Stepwedge Aluminium - With Leather Carrying Case and Calibration Certificate (Please specify material type)	£186.00
LSW/M	1-8mm x 8mm Step Perspex with Steel Inserts with Calibration Certificate	£144.00
LSW	1.5-20 x 6 Step Perspex C/W Steel Inserts and Calibration Certificate	£307.00
LSW	5-50mm x 6 Step Perspex with Carbon Steel Inserts and Calibration Certificate	£267.00
Round LSW	1-8mm with Leather Case and Calibration Certificate	£99.00
CSW	Curved Stepwedge with Calibration Certificate (2mm to 10mm)	£123.00
MU	Metric Universal with Calibration Certificate Type CB 87M	£206.00
MU – Case	Leather Wallet for Metric Universal	£14.00
TBR 2/125	5 Holes with Calibration Certificate	£246.00
A5 Blank B	ESI with * Carrying Case and Calibration Certificate	£236.00
A5 Blank C	ESI with * Carrying Case and Calibration Certificate	£236.00
BCB N-A5	ESI Extra 5 x 1.5mm Target Holes with *Carrying Case and Calibration Certificate	£339.00
50 RAD	ESI with Calibration Certificate	£223.00
ASME	ASME 0-1" (19mm) (0-19mm) with Calibration Certificate	£335.00
ASME	ASME 1-2" (19-38mm) with Calibration Certificate	£439.00
ASME	ASME 2-4" (38-75mm) with Calibration Certificate	£839.00
DAC	BS3923 Price Available on Request – Weld Thickness Required	POA
ASTM E-127	Price Available on Request	POA
Rail Blocks	Type CB88 Metric or Imperial and CB91M	P.O.A
Specials	The manufacture of special purpose test blocks to customer's own requirements is also undertaken in any type of material. Prices are available on request.	

Notes

Prices include *Carrying cases where indicated. Note this is a rugged fabric site carry case unless otherwise specified.

- The above blocks are the most popular and in many cases can be Ex-Stock.
- We are please to quote for manufacture in free issue material.

CALIBRATION BLOCKS

Ultrasonic – USA Specifications - Carbon Steel/Stainless Steel/Aluminium (all Prices On Application)	
11W Block type 1	Similar to Number 1 Block
11W Block type 2	Similar to Number 1 with deep cut out
Type DSC (AWS)	Shearwave distance and sensitivity calibration
Angle Beam	Similar to DSC Block
AWS Resolution	Checking Resolution of Angle Beam Probes
Type SC (AWS)	Shearwave Sensitivity Calibration
Type DC (AWS)	Shearwave Distance Calibration
Low Beam Profile	Similar to BCB (IOW) Imperial or metric
Navships Block	Distance amplitude calibration to 0900-006-3010
ROMPAS Block	Miniature angle beam block
Step Blocks	4 Steps or 5 Steps
ASTM Single E127-64	Varying metal distance and flat bottom hole diameter
ASTM Distance / Amplitude Set	19 Blocks with the same size FBH and varying metal distance – Specify Hole Diameter
ASME Blocks	Please state required specification.

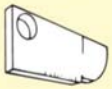
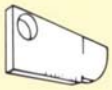
The above is only a selection of Calibration Blocks. Others are available on request.
Blocks can be supplied to other country standards – Germany, France, Japan etc.

Eddy Current (0.2, 0.5 & 1.0mm slots)			**Price**
3 Notch Carbon Steel	0.2mm, 0.5mm, 1.0mm Deep Notches	EN1A	£119.00
3 Notch Stainless Steel	0.2mm, 0.5mm, 1.0mm Deep Notches	304 or 316	£234.00
3 Notch Aluminium	0.2mm, 0.5mm, 1.0mm Deep Notches	7075	£152.00
Weldscan (0.5, 1.0 & 2.0mm slots with lift off spacers to EN1711)			
3 Notch Carbon Steel	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers	EN1A	£204.00
3 Notch Stainless Steel	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers	304 or 316	£258.00
3 Notch Aluminium	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers	7075	£227.00

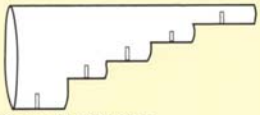
Other materials available and blocks can also be manufactured from free issue material.
Calibration Blocks can be made with any combination of spark eroded and machined notches and holes
Calibration Blocks to aircraft manufacturer specifications.

Calibration Standards	**£131.00**
Re-Calibration	**£45.00**
Quality Assurance Each block is engraved with a unique serial number and fully certified to the requirements of European standards 12223, 27963 (where applicable) British Standards 2704 (1978) and DIN 54120 together with independent material chemical analysis and certification of heat treatment to DIN 54120 (grain refining) all of which is fully traceable. Certification as appropriate outside of Europe.	
A full independent NAMAS approval for physical measurements is offered if required. Prices on application.	

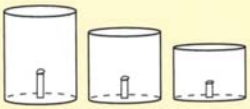
CALIBRATION BLOCKS

ORDER CODE	SHAPE (Not to Scale)	TYPE	DESCRIPTION/ APPLICATION	STANDARD MADE TO	MATERIAL/ SIZE
No. 1		EUROPEAN STANDARD	**No. 1 Calibration Standard.** Calibration of shear and compression wave probes. Checking beam angle, emergent point and resolution. Calibration of time base and gain settings. 3mm target hole.	EN12223 2000 Tolerance +/– 0.1mm	STEEL 25mm x 100mm x 300mm 5.2 kg (Optional 50mm thickness) 10.4 kg
V1		A2	**V1 Calibration Standard.** Calibration of shear and compression wave probes. Checking beam angle, emergent point and resolution. Calibration of time base and gain settings. 1.5mm target hole.	EN12223 2000 Formerly BS2704 Tolerance +/– 0.1mm	STEEL 25mm x 100mm x 300mm 5.6 kg (Optional 50mm thickness) 10.8 kg
No. 2		EUROPEAN STANDARD	**No. 2 Calibration Standard.** Small calibration block for site checking of shearwave probes, time base and gain settings. 5mm diameter hole target.	EN27963 DEC. 1992 Tolerance +/– 0.1mm	STEEL 12.5mm x 43mm x 75mm 0.22 kg (Optional 20mm thickness) 0.35 kg
V2		A4	**V2 Calibration Standard.** Small calibration block for site checking of shearwave probes, time base and gain settings. 1.5mm diameter hole target.	EN27963 DEC. 1992 Formerly BS2704 Tolerance +/– 0.1mm	STEEL 12.5mm x 43mm x 75mm 0.22 kg (Optional 20mm thickness) 0.35 kg
BCB / BCB-N		A5	**Beam Calibration Block.** Beam profile and resolution checks for shear wave probes. Sensitivity checks for shear and compression probes. 9 off 1.5mm holes. BCB-N contains four additional 1.5mm diameter holes.	Formerly BS2704 Tolerance +/– 0.1mm	STEEL 50mm x 75mm x 305mm 9 kg
A6		A6	Evaluating dominant frequency, pulse length, dead zone and resolving power for shear and compression probes	Formerly BS2704 Tolerance +/– 0.1mm	STEEL 25mm x 50mm x 150mm 1.5 kg

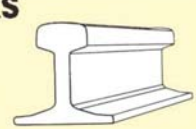
SPECIAL CALIBRATION BLOCKS



Stepped Bar Samples
with flat bottomed holes.
Up to 400mm bar diameter



ASTM Area Amplitude Set
Specify hole sizes, depths and materials.

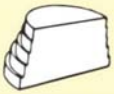
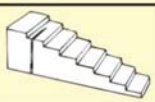
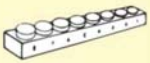
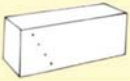


Rail Testing Blocks
Specify hole sizes and positions

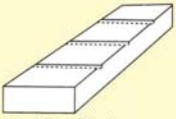
FULL MACHINING OF BLOCKS TO CUSTOMER REQUIREMENTS - FROM 2gm TO 45kg

FULL MACHINING OF BLOCKS TO CUSTOMER REQUIREMENTS – FROM 2gm to 200kg

CALIBRATION BLOCKS

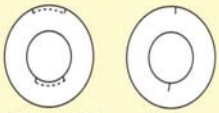
ORDER CODE	SHAPE (Not to Scale)	TYPE	DESCRIPTION/ APPLICATION	STANDARD MADE TO	MATERIAL/ SIZE
RTB		A7	Checking shear wave probe resolution as BS4331 part 3, 1974 (1987). Steps of 2,3,4 and 5mm.	Formerly BS2704 Tolerance +/– 0.1mm	STEEL 74mm radius 74mm thick 4 kg
MU		SPECIAL	**Metric Universal Block** for general purpose checking as No.1 block	Tolerance +/– 0.1mm	STEEL 20mm x 50mm x 155mm 1.15 kg
TBR 2 125		SPECIAL	**Radiused Test Block** for calibration of boiler probes. Available with 3 or 5 x 1.5mm diameter holes.	Tolerance +/– 0.1mm	STEEL 25mm x 20mm x 165mm 0.6 kg
LSW		SPECIAL	**Ladder Step Wedge** for timebase calibration with thickness measuring compression probes. 8 steps from 1 mm to 8mm. Plus thickness step of 15mm and notch at 20mm depth	Tolerance +/– 0.1mm	STEEL 8mm x 15mm x 120mm 0.07 kg
LSW/M		SPECIAL	Generally as LSW with 25mm diameter steel inserts mounted in plastic. 8 steps from 1 mm to 8mm. Also available in other step sizes.	Tolerance +/– 0.1mm	STEEL INSERTS Plastic Body 10mm x 20mm x 140mm 0.27 kg
CSW		SPECIAL	**Curved Step Wedge** for timebase calibration of thickness measuring probes. 5 steps - 2,4,6,8 and 10mm.	Tolerance +/– 0.1mm	STEEL 100mm long x 300mm I.D Quadrant 0.14 kg
ASME (Specify (Thickness)		ASME	Setting sensitivity levels for weld testing. Sizes and locations of flaws are dependent on weld thickness. Metric or Imperial.	ASME SECTION V Tolerance +/– 0.1mm	STEEL Size dependent on weld thickness
DAC (Specify (Thickness)		SPECIAL	Setting DAC characteristics for shear wave and compression wave probes. Flaws typically 3mm diameter holes at 20%, 40%, 60% and 80% of thickness.	(BS 3923) 1986 Tolerance +/– 0.1mm	STEEL Size dependent on weld thickness

EDDY CURRENT CALIBRATION BLOCKS



Standard Test Block
0.2mm, 0.5mm, 1.0mm Deep Notches.
Supplied in any material

Profiled notches in curved samples



Notches in Tubes and Bars
Longitudinal and transverse inner and outer surfaces.

PRECISION SPARK EROSION AND MACHINING OF NOTCHES AND HOLES

PRECISION SPARK EROSION AND MACHINING OF NOTCHES AND HOLES

ULTRASONIC PROBES – NDT GLOBAL SERVICES

Angle Beam Probes			
SS Series' Miniature Subvis	**Price**	**Standard Series**	**Price**
SS38 – 2	£65.00	TS38 – 4	£85.00
SS45 – 2	£65.00	TS45 – 4	£85.00
SS60 –2	£65.00	TS60 – 4	£85.00
SS70 –2	£65.00	TS70 – 4	£85.00
SS38 – 4	£65.00	**Sub Miniature Angle**	**Price**
SS45 – 4	£65.00	MSS38 – 5	£145.00
SS60 – 4	£65.00	MSS45 – 5	£145.00
SS70 – 4	£65.00	MSS60 – 5	£145.00
SS38 – 2HP	£78.00	MSS70 – 5	£145.00
SS45 – 2HP	£78.00	**Boiler Tube**	**Price**
SS60 – 2HP	£78.00	BTP70	£140.00
SS70 – 2 HP	£78.00	**Creep Wave**	**Price**
SS80 – 2HP	£95.00	LCW 2	£255.00
SS90 – 2HP	£95.00	LCW 4	£255.00
SS38 – 4HP	£78.00	CW 2	£225.00
SS45 – 4HP	£78.00	CW 4	£225.00
SS60 – 4HP	£78.00	**Angle Compression**	**Price**
SS70 – 4HP	£78.00	SAC45 Single Crystal	£185.00
SS80 – 4HP Lemo not available	£95.00	SAC60 Single Crystal	£185.00
SS90 – 4HP Lemo not available	£95.00	SAC70 Single Crystal	£185.00
For Lemo connector add	£3.00	TAC45 Twin Crystal	£255.00
		TAC60 Twin Crystal	£255.00
XL Series' - Large	**Price**	TAC70 Twin Crystal	£255.00
XLSS (1MHz)**	£195.00	MTAC45 Twin Crystal	£220.00
XLSS38 – 2	£135.00	MTAC60 Twin Crystal	£220.00
XLSS45 – 2	£135.00	MTAC70 Twin Crystal	£220.00
XLSS60 – 2	£135.00	LTAC45 Twin Crystal	£255.00
XLSS70 – 2	£135.00	LTAC60 Twin Crystal	£255.00
XLWS (pack 10)	£27.50	LTAC70 Twin Crystal	£255.00
		High Temperature	**Price**
		HMWT 45,60 or 70 Degree, Twin	£200.00
L Series – Medium	**Price**	HSMTC5-5 Twin 0 Degree	£200.00
LSS38 – 2.5	£105.00	HTCSF10 2 or 4MHz Twin 0 Degree	£210.00
LSS45 – 2.5	£105.00	HTC20 2.5 or 5MHz Twin 0 Degree	£200.00
LSS60 – 2.5	£105.00	HSS45 – 4 Single Crystal	£160.00
LSS70 – 2.5	£105.00	HSS60 – 4 Single Crystal	£160.00
LSS Also available in 4MHz	£110.00	HSS70 – 4 Single Crystal	£160.00
LWS (pack 10)	£27.50	HTC10 – 5 Twin Crystal	£185.00
		HTC10 – 2.5 Twin Crystal	£185.00
Twin Angle Beam Probes		**Underwater Probes**	
W Series - Miniature	**Price**	UWTC10-5 Twin 0 Degree	£215.00
MWT38 – 4	£125.00	UWTC20-2.5 Twin 0 Degree	£235.00
MWT45 – 4	£125.00	UWSS45-4 Single	£190.00
MWT60 – 4	£125.00	UWSS60-4 Single	£190.00
MWT70 – 4	£125.00	USWW70-4 Single	£190.00

ULTRASONIC PROBES – NDT GLOBAL SERVICES

NDT – ES Single Crystal Compression	
Replacement Membrane Type	**Price**
SCSF24 – 1 Lemo	£190.00
SCSF24 – 2 Lemo	£150.00
SCSF24 – 4 Lemo	£150.00
SCSF10 – 2 ML	£120.00
SCSF10 – 4 ML	£120.00
SCSF10 – 5 ML	£120.00
GS45 – (pack of 10) Membrane	£20.00
GS24 – (pack of 10) Membrane	£20.00
Delay Line	**Price**
SCDL 6.5	£200.00
SCDL 6 –10	£265.00
DL 5	£38.00
Ceramic Faced	**Price**
SCHF20 – 1	£175.00
SCHF20 – 2	£110.00
SCHF20 – 4	£110.00
SCHF20 – 5	£110.00
SCHF10 – 2	£100.00
SCHF10 – 4	£100.00
SCHF10 – 5	£100.00
SCHF10 - 10	£180.00
SMSC5 – 10	£185.00
SCLP20 – 2.5	£125.00
SCLP20 – 5	£125.00
SCLP10 – 2.5	£115.00
SCLP10 – 4	£115.00
SCLP10 – 5	£115.00
Steel Faced	**Price**
SC20 – 2.5	£95.00
SC20 – 4	£95.00
SC20 – 5	£95.00
SC10 – 2.5	£90.00
SC10 – 4	£90.00
SC10 – 5	£90.00
Thickness Meter Probes	**Price**
DA10 – 5	£185.00
DA20 – 2	£245.00
DA5 – 5	£225.00
T-Mike TMP	£150.00
TMP-1 Comparagauge	£180.00

Twin Crystal Compression	
Replacement Membrane Type	**Price**
TCSF24 – 2	£155.00
TCSF24 – 4	£155.00
TCSF10 – 2	£130.00
TCSF10 – 4	£130.00
TCSF10 – 5	£130.00
Standard Series – Round	**Price**
TC20 – 1	£135.00
TC20 – 2.0	£85.00
TC20 – 2.5	£85.00
TC20 – 5	£80.00
TC15 – 2.5	£75.00
TC15 – 5	£75.00
TC10 – 2.5	£75.00
TC10 – 4	£75.00
TC10 – 5	£75.00
Lemo connector add	£5.00
Miniature and Special Use	**Price**
MTC10 – 5	£145.00
SMTC5 – 5	£150.00
SMTC5 – 10	£205.00
DTC10 – 5	£155.00
Standard Series – Square	**Price**
TCE10 – 5	£70.00
TCE15 – 5	£72.00
TCE15 – 2.5	£72.00
TCE20 – 5	£75.00
TCE20 – 2.5	£75.00
Lemo 00 Connector – Add	£5.00
Wear ring add	£15.00
Angle Beam	**Price**
W Series – Miniature	
MWS35 – 2	£90.00
MWS45 – 2	£90.00
MWS60 – 2	£90.00
MWS70 - 2	£90.00
MWS80 – 2	£135.00
MWS90 – 2	£135.00
MWS35 – 4	£90.00
MWS45 – 4	£90.00
MWS60 – 4	£90.00
MWS70 – 4	£90.00
MWS80 – 4	£135.00
MWS90 – 4	£135.00
Top entry connector add	£3.00

Other manufacturers' probes are available, code and price on request

ULTRASONIC PROBES – GE (KRAUTKRAMER)

Miniature Angle Probes S-Series		**Large Angle Probes ESI Approved**	
MAPS38-4	£107.10	AO-B38-2	POA
MAPS45-4	£107.10	AP-B45-2	POA
MAPS60-4	£107.10	AP-B60-2	POA
MAPS70-4	£107.10	AP-B70-2	POA
MAPS80-4	£107.10		
MAPS90-4	£107.10	**Combined Twin Probes S-Series**	
MAPS38-2	£107.10	CD-S10/2.5	£86.10
MAPS45-2	£107.10	CD-S10/5	£86.10
MAPS60-2	£107.10	CD-S15/2.5	£86.10
MAPS70-2	£107.10	CD-S15/5	£86.10
MAPS90-2	£107.10	CD-S20/1.25	£86.10
MA Series		CD-S20/2.5	£86.10
MA45-4	£52.50	CD-S20/5	£86.10
MA60-4	£52.50		
MA70-4	£52.50	**Single Compression Probes S-Series (Soft Faced)**	
MA45-2	£52.50	SNS10/5	POA
MA60-2	£52.50	SNS10/2.5	POA
MA70-2	£52.50	SNS25/2.5	POA
Twin Angle Focused ESI Approved		SNS25.1.25	POA
TMAPF-S38-4	£124.95	**Single Compression Probes S-Series (Hard Faced)**	
TMAPF-S45-4	£124.95	SNS10/5H	POA
TMAPF-S60-4	£124.95	SNS10/2.5H	POA
TMPAF-S70-4	£124.95	SNS25/S.5H	POA
Twin Angle Non Focused		SNS25/1.25H	POA
TMAPF- S80-4	£124.95		
TMAPF-S90-4	£124.95	**REPLACEABLE PROBE COVERS**	
TMAPF45-2	£124.95	ES45 (PACK 10)	£32.20
TMAPF60-2	£124.95	ES24 (PACK 10)	£21.85
TMAPF70-2	£124.95		

ULTRASONIC PROBES – GE (KRAUTKRAMER)

Combined Twin Probes CD-P			
CD-P 10/2	£158.55	MWB45-4	£276.15
CD-P 10/4	£158.55	MWB60-4	£276.15
CD-P10/5	£158.55	MWB70-4	£276.15
CD-P 15/1.25	£175.35	WB45-2	POA
CD-P 15/2	£175.35	WB60-2	POA
CD-P 15/5	£175.35	WB70-2	POA
CD-P 20/1.25	£187.95		
CD-P 20/2	£187.95	SEB 4KF8	POA
CD-P 20/5	£187.95	MB2S-N	POA
		MB4S-N	POA
Miniature Angle Probes P Series			
MAPP38-4	£134.40	MSW-QC 2.25MHz 0.5” Ø	£199.50
MAPP45-4	£134.40	MSW-QC 5.0MHz 0.5”Ø	£199.50
MAPP60-4	£134.40		
MAPP70-4	£134.40	Wedge 0.5” Ø, 45°	£27.30
MAPP38-2	£134.40	Wedge 0.5” Ø, 60°	£27.30
MAPP45-2	£134.40	Wedge 0.5” Ø, 70°	POA
MAPP60-2	£134.40		
MAPP70-2	£134.40	HT Wedge 0.5 Ø, 45°	£207.90
		HT Wedge 0.5” Ø, 60°	£235.20
		HT Wedge 0.5” Ø, 70°	£286.65
B2S(E)	£318.15		
B4S(E)	£318.15	**Thickness Meter Probe & Cables**	
B1S	POA	DA301	£315.00
BO.5SL	POA	DA303	£315.00
MSEB2(E)	£483.00	DA312	£641.55
MSEB4(E)	£317.70	DA401	£354.90
SEB2	POA	DA412	£633.15
SEB4	POA	KBA560D	£399.00
MWB45-2	£320.25	HT400A	POA
MWB60-2	£320.25	HT400B	POA
MWB70-2	£320.25	CLF4	POA
		CLF5	POA
Longitudinal Wave Single Angle Probes		TC560	POA
WSY45-4	£468.30	CA211A	POA
WSY60-4	£468.30	DA231	£147.00
WSY70-4	£468.30	DA235	£105.00
		KBA535 (Armoured)HT	£158.55
		KBA536 (Standard) HT	£110.25
Twin Angle Probes			
VSY 45-4	POA		
VSY 60-4	POA		
VSY 70-4	POA		

ULTRASONIC PROBES – SONATEST

Miniature Angle Probes SA Series 10mm Economy Version		**Large Single Angle Probes**	
SA5-38 Subvis Connector	£78.75	LSA 1-45 Subvis Connector	£131.25
SA5-45 Subvis Connector	£78.75	LSA 1-60 Lemo Connector	£131.25
SA5-60 Subvis Connector	£78.75	LSA 1-70 Lemo Connector	£131.25
SA5-70 Subvis Connector	£78.75	LSA 2-45 Subvis Connector	£131.25
SA5-80 Subvis Connector	£94.50	LSA 2-60 Subvis Connector	£131.25
SA5-90 Subvis Connector	£94.50	LSA 2-70 Subvis Connector	£131.25
SA2-38 Subvis Connector	£78.75	LSA 4-45 Subvis Connector	£131.25
SA2-45 Subvis Connector	£78.75	LSA 4-60 Subvis Connector	£131.25
SA2-60 Subvis Connector	£78.75	LSA 4-70 Subvis Connector	£131.25
SA2-70 Subvis Connector	£78.75	**Hot Work Probes 400°C**	
SA2-80 Subvis Connector	£94.50	HSA 2-45 Subvis Connector	£152.25
SAO Series 10mm		HSA 2-60 Subvis Connector	£152.25
SAO4-45 Subvis Connector	£89.25	HSA 2-70 Subvis Connector	£152.25
SAO4-60 Subvis Connector	£89.25	HSA 4-45 Subvis Connector	£152.25
SAO4-70 Subvis Connector	£89.25	HSA 4-60 Subvis Connector	£152.25
SAO2-45 Subvis Connector	£89.25	HSA 4-70 Subvis Connector	£152.25
SAO2-60 Subvis Connector	£89.25		
SAO2-70 Subvis Connector	£89.25	**Twin Angle Probes CDA Series**	
OTHER ANGLE AVAILABLE		CDA 2-45 Subvis Connector	£136.50
ORION Series High Specification		CDA 2-60 Subvis Connector	£136.50
Orion 4-38 Subvis Connector	£131.25	CDA2-70 Subvis Connector	£136.50
Orion 4-45 Subvis Connector	£131.25	CDA 4-45 Subvis Connector	£136.50
Orion 4-60 Subvis Connector	£131.25	CDA 4-60 Subvis Connector	£136.50
Orion 4-70 Subvis Connector	£157.50	CDA 4-70 Subvis Connector	£136.50
Orion 4-90 Subvis Connector	£157.50		
Orion 2-38 Subvis Connector	£120.75	**Boiler Tube Inspection Probes**	
Orion 2-45 Subvis Connector	£120.75	Twin Angle, 60° 5MHz	POA
Orion 2-60 Subvis Connector	£120.75	Twin Angle, 70° 5MHz	POA
Orion 2-70 Subvis Connector	£120.75		
Other Connector Options Available			

ULTRASONIC PROBES – SONATEST

Single Ceramic Faced High Damped Longitudinal Probe (Subvis)	
SLH1-25 (1MHz, 25mm Ø) (Lemo)	£291.90
SLH2-10 (2MHz, 10mm Ø)	£258.30
SLH2-15 (2MHz, 15mm Ø)	£258.30
SLH4-10 (4MHz, 10mm Ø)	£246.75
SLH4-25 (4MHz, 25mm Ø) (Lemo)	£258.30
SLH5-10 (5MHz, 10mm Ø)	£258.30
SLH5-15 (5MHz, 15mm Ø)	£258.30
SLH10-5 (10MHz, 5mm Ø)	£246.75
SLH10-10 (10MHz, 10mm Ø)	£291.90
Other sizes and frequencies available	
Single High Damped, Low Profile Longitudinal Probe (Subvis)	
SLP1-20 (1MHz, 20mm Ø)	£286.65
SLP2-10 (2MHz, 10mm Ø)	£237.30
SLP5-5 (5MHz, 5mm Ø)	£268.80
SLP5-10 (5MHz, 10mm Ø)	£237.30
SLP10-5 (10MHz, 5mm Ø)	£291.90
SLP10-10 (10MHz, 10mm Ø)	£281.40
Other size and frequencies available	
Single High Damped Economy Longitudinal Probe (Subvis)	
SLG2-10 (2MHz, 10mm Ø)	£195.30
SLG4-10 (4MHz, 10mm Ø)	£149.10
SLG5-10 (5MHz, 10mm Ø)	£149.10
SLG10-10 (10MHz, 10mm Ø)	POA
SLG4-20 (4MHz, 20mm Ø)	POA
Single Low Damped Economy Longitudinal Probe (Subvis)	
SLC1-20 (1MHz, 20mm Ø)	£166.95
SLC2-10 (2MHz, 10mm Ø)	£137.55
SLC2-15 (2MHz, 15mm Ø)	£137.55
SLC2-20 (2MHz, 20mm Ø)	£166.95
SLC2-25 (2MHz, 25mm Ø)	£166.95
SLC4-10 (4MHz, 10mm Ø)	£137.55
SLC4-20 (4MHz, 20mm Ø)	£166.95
SLC5-10 (5MHz, 10mm Ø)	£137.55
Single Medium Damped Longitudinal Probes (Subvis)	
SLM1-25 (1MHz, 25mm Ø)	£291.90
SLM2-10 (2MHz, 10mm Ø)	£268.80
SLM2-20 (2MHz, 20Mm Ø)	£268.80
SLM4-10 (4MHz, 10mm Ø)	£246.75
SLM5-10 (5MHz, 10mm Ø)	£246.75
SLM5-15 (5MHz, 15mm Ø)	£258.30
SLM10-10 (10MHz, 10Mm Ø)	£291.90

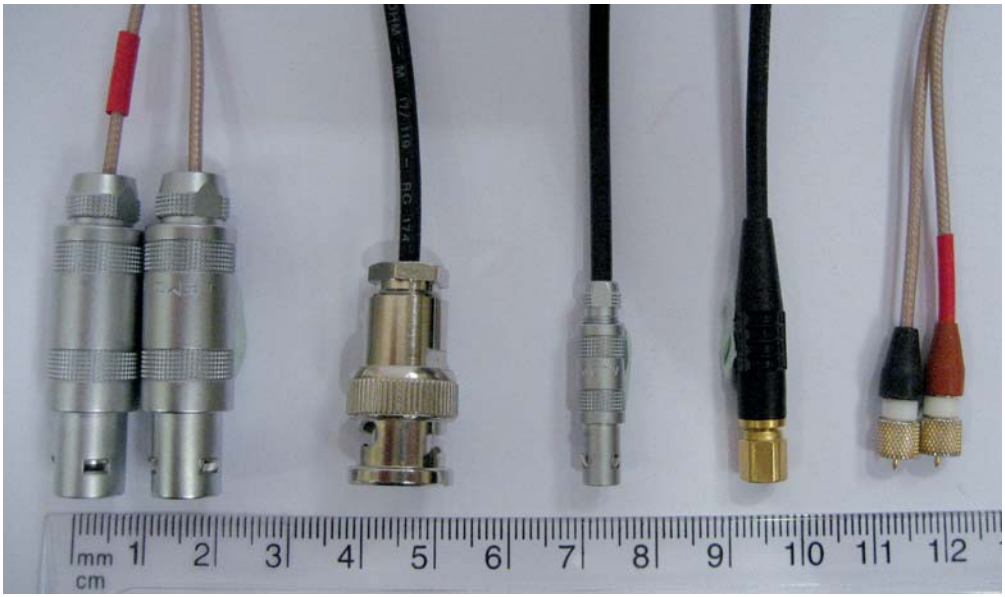
Single Longitudinal Probe (Subvis) Protective Membrane	
SLF1-25* (1MHz, 25mm Ø)	POA
SLF2-10 (2MHz, 10mm Ø)	£268.80
SLF2-10* (2MHz, 10mm Ø)	POA
SLF4-10 (4MHz, 10mm Ø)	£246.75
SLF4-20* (4MHz, 20mm Ø)	POA
SLF5-10 (5MHz, 10Mm Ø)	£246.75
SLF5-15 (5MHz, 15mm Ø)	£246.75
SLF5-20* (5MHz, 20mm Ø)	POA
SLF5-25* (5MHz, 25mm Ø)	POA
* For Lemo 1 connector add L	
Twin Compression Probe, Medium Damped (Subvis)	
CD1-15 (1MHz, 15mm Ø)	£115.50
CD1-20 (1MHz, 20MM Ø)	£115.50
CD2-10 (2MHz, 10mm Ø)	£126.00
CD2-15 (2MHz, 15mm Ø)	£115.50
CD2-20 (2MHz, 20mm Ø)	£103.95
CD4-10 (4MHz, 10mm Ø)	£103.95
CD5-10 (5MHz, 10mm Ø)	£131.25
CD5-15 (5MHz, 15mm Ø)	£115.50
CD5-20 (5MHz, 20Mm Ø)	£115.50
Twin Compression Probe High Temp. 400° (Subvis)	
CD2-10 HT (2MHz, 10mm Ø)	£257.25
CD2-15HT (2MHz, 15mm Ø)	£257.25
CD2-20 HT (2MHz, 20mm Ø)	£257.25
CD4-10HT (4MHz, 10mm Ø)	£246.75
CD5-10 HT (5MHz, 10mm Ø)	£246.75
CD5-15 HT (5MHz, 15mm Ø)	£246.75
Twin Compression Probe (Subvis) Plastic Flared Skirt	
GEM2-10 (2MHz, 10mm Ø)	£103.95
GEM4-10 (4MHz, 10mm Ø)	£103.95
GEM5-10 (5MHz, 10mm Ø)	£103.95
For Lemo 00 add 'Z'	
For Microdot add 'D'	
Twin Compression Probe,(Subvis) Protective Membrane	
CDF1-25 (1MHz, 25mm Ø)	£288.75
CDF2-10 (2MHz, 10mm Ø)	£288.75
CDF2-20 (2MHz, 20mm Ø)	£288.75
CDF4-10 (4MHz, 10mm Ø)	£288.75
CDF4-20 (4MHz, 20mm Ø)	£288.75
CDF5-10 (5MHz, 10mm Ø)	£288.75
CDF5-20 (5MHZ (20MM Ø)	£288.75

ULTRASONIC – CABLES – ACCESSORIES

Ultrasonic Cables		Price
Single	No 1 Lemo to 00 Lemo x 2 metres cable	£32.00
Twin	No 1 Lemo to 00 Lemo x 2 metres cable	£64.00
Single	No 1 Lemo to No 1 Lemo x 2 metres cable	£42.50
Twin	No 1 Lemo to No 1 Lemo x 2 metres cable	£85.00
Single	BNC to 00 Lemo x 2 metres cable	£23.50
Twin	BNC to 00 Lemo x 2 metres cable	£47.00
Single	BNC to No 1 Lemo x 2 metres cable	£28.00
Twin	BNC to No 1 Lemo x 2 metres cable	£56.00
Single	No 1 Lemo to Subvis x 2 metres cable	£27.50
Twin	No 1 Lemo to Subvis x 2 metres cable	£55.00
Single	00 Lemo to Subvis x 2 metres cable	£26.50
Twin	00 Lemo to Subvis x 2 metres cable	£53.00
Single	00 Lemo to 00 Lemo x 1 metre cable	£26.50
Single	BNC to Subvis x 2 metres cable	£21.50
Twin	BNC to Subvis x 2 metres cable	£43.00
Single	BNC to Microdot* (Modified Subvis) x 2 metres cable	£25.50
Twin	BNC to Microdot* (Modified Subvis) x 2 metres cable	£51.00
	*For original Microdot connectors add £20.00 per connector.	
Single	Lemo 1 to Microdot x 2 metres cable (Original)	£50.50
Twin	Lemo 1 to Microdot x 2 metres cable (Original)	£101.00
Single	Lemo 1 to Microdot x 2 metres cable (Modified Subvis)	£30.50
Twin	Lemo 1 to Microdot x 2 metres cable (Modified Subvis)	£61.00
The above are our standard "Off the shelf" ranges of leads. Any type of lead with your choice of connector and length can be supplied. Details are available on request.		
Accessories		
Probe Re-shoe per probe		£16.00
Twin Compression Probe with Wear ring		£25.00
Re-shoeing Kit Comprising: 10 Re-shoe Plates		£20.00
Adhesive 5grm, Bottle		£10.00
BNC/Lemo No 1 adaptor		£16.00
Lemo No 1 to BNC Adaptor		£16.00
Soft Face Probe Membranes (pack of 10)		£16.00
Lead Refurbishing/Conversion (Single)		£ 9.50
Lead Refurbishing/Conversion (Twin)		£18.00
USM2 Battery Pack		£160.00
USK6/7 Battery Pack		£78.10
USK6/7 Battery Charger		£90.00
USK6/7 Carry Bag		£75.00
USN52 Carry Bag		£85.00
Replacement Graticules for USK 6-7		£20.00

ULTRASONIC COUPLANTS

Product Reference	Description & Size	Price
UCA-2M	Blue Water Based Ultrasonic Couplant 1 Litre	£12.80
UCA-2M	Blue Water Based Ultrasonic Couplant 25 Litre	£204.15
W1	Yellow Water Based Ultrasonic Couplant 250ml.	£6.50
W1	Yellow Water Based Ultrasonic Couplant 1 Litre	£7.50
W1	Yellow Water based Ultrasonic Couplant 5 Litre	£29.00
W1	Yellow Water Based Ultrasonic couplant 25 Litre	£140.00
UCA3HT	High Temp. Couplant 1 Litre	£36.50
UCA7	Powder Couplant (Mix with water) 1 Kilo	POA
D1	Powder Couplant (Mix with water) 1 Kilo	£31.40
O1	Orange Oil based Ultrasonic Couplant 1 Litre	£15.00
O1	Orange Oil Based Ultrasonic Couplant 5 Litre	£64.00
O1	Orange Oil Based Ultrasonic Couplant 25 Litre	£331.00
ZG-F	Krautkramer Couplant (pack 5 x 250g)	£48.00
ZG-M	Krautkramer High Temp Couplant 100g Tube	£52.50
ZG-T	Krautkramer Multi-Range Couplant 100g Tube	£44.30



LEMO-1 BNC LEMO-00 SUBVIS MICRODOT

ULTRASONIC FLAW DETECTORS

FLAW DETECTORS		Price (£)
GE Inspection Tech:-	USM32X B (Various options and accessories available) prices from	£6376.65
	USN60 (Various options and accessories available) prices from	£7626.15
	PHASOR CV Portable Phased Array	£9712.50
	PHASOR XS Portable Phased Array (Various options) prices from	£14637.00
SONATEST:-	SITESCAN D SERIES (Various Options) price from	£3669.75
	SITESCAN 123 (Various options and accessories available)	£4406.85
	RAILSCAN 125 (Various options and accessories available) prices from	£6258.00
	SITESCAN 150 (Various options and accessories available) prices from	£5360.25
	SITESCAN 250 (Various options and accessories available) prices from	£5880.00
	SITESCAN D20 (Various options and accessories available) prices from	£4194.75
	Other models available, prices and specification on request.	
The full range of equipment manufactured by the above companies is available on request. IF YOUR CHOICE IS NOT LISTED ABOVE PLEASE CALL FOR FURTHER INFORMATION.		

PHASOR XS

SITESCAN D-10

SITESCAN 140

USM GO

SS123

ULTRASONIC THICKNESS GAUGES – HARDNESS TESTERS

Ultrasonic, Thickness Gauges	Price
Cygnus 1 - Intrinsically Safe Model Complete Kit With 2.25mhz 13mm Heavy Duty Probe	£2695.00
Cygnus - Underwater Model Complete Kit With 2.25mhz 13mm UW Heavy Duty Remote Probe	£3255.00
Cygnus 2 - Basic Model Complete Kit With 2.25mhz 13mm Remote Probe	£1545.00
Cygnus 3 - With Data Logger Complete Kit With 2.25mhz 13mm Remote Probe	£1995.00
Cygnus 4 - LCD - Basic Model Complete Kit With 2.25mhz 13mm Remote Probe	£1545.00
DMS GO High Performance A-Scan Thickness Meter Bose Kit	£3265.50
DMS GO High Performance A-Scan Thickness Meter Top Coat Auto-V Kit	£3465.00
GE - DM 5E Basic Complete With Standard Accessories **Note Probe and Cable are Required. Prices From**	£1617.00
GE - DM 5E DM Complete With Standard Accessories, Dual Multi **Note Probe and Cable are Required. Prices From**	£2058.00
GE - DM 5E DL Complete With standard Accessories, Data Logger **Note Probe and cable are Required. Prices From**	£2488.50
GE - Pocket Mike Complete With Carry case, Manual, Integral Probe 5MHz, Battery & Couplant.	£1071.00
Full Range Of Agfa Thickness Gauges And Probes Available Prices On Request.	

Cygnus 1

Cygnus SE

Cygnus 4

POCKET MIKE

DM5

ULTRASONIC THICKNESS GAUGES – HARDNESS TESTERS

Ultrasonic, Thickness Gauges	Price
PosiTector UTG - Complete With Transducer, Couplant, Carry Case, Manual & IR Port	£764.50
Sonatest - B-Gage UT Thickness Gauge Kit	£567.00
Class Instruments - Touchstone 1 Kit, c/w Probe/Lead, Couplant, Battery, Carry Case & Certificate	£550.00
Dakota Mx-1 Complete With Battery, Probe, Cable, Carry Case, Couplant, Manual, Certification.	£650.00
Dakota Mx-2 Complete With Battery, Probe, Cable, Carry Case, Couplant, Manual, Certification.	£780.00
Dakota Mx-3 Complete With Battery, Probe, Cable, Carry Case, Couplant, Manual, Certification.	£995.00
Dakota Mx-5 Complete With Battery, Probe, Cable, Carry Case, Couplant, Manual, Certification.	POA
Dakota Mx-5dl Complete With Probe, Cable, Carry Case, Cert, Manual And Software	POA
Full Range Of Dakota Thickness Gauges And Probes Available Prices On Request.	
Hardness Testers	
Equotip Model D Kit c/w Impact Device, Test Block, Coupling Paste, Support Rings etc.,	£5480.00
Bambino Kit c/w Charging Pack, Lanyard, USB Lead, Case, Instructions, Prices From	£1890.00
Piccolo Kit c/w Charging Pack, Lanyard, USB Lead, Case, Software, Instructions etc Price From	£2520.00
GE Dynapocket PLUS Kit c/w D62 Block, Test Attachments, Manual, Guide & Case etc.,	£2730.00

TOUCHSTONE 1

EQUOTIP

POSITECTOR

MX-3 & MX-5

ULTRASONIC PLATE TESTING TROLLEYS

PLATESCAN 4 – Multi Probe Manual Plate Tester

- Tests essentially to plate extreme edges using idler wheels.
- Test head rotate facility enables scan index to be adjusted.

- A manually operated ultrasonic plate testing trolley unit for 4 probes.
- Excellent maneuverability for different scan patterns.
- Standard type A test heads with a single 4 probe block for scan indices from 10 to 75mm per probe.
- Optional type B test heads with 4 individual probe holders for scan indices up to 150mm per probe.
- Replaceable steel wear shoe(s).
- Multiplexed operation for four probes using optional 4 channel Mux 1 Multiplexer.
- Fifth probe facility enables localised scanning to be undertaken.
- Excellent maneuverability for different scan patterns.
- Tests essentially to plate extreme edges using idler wheels.
- 8 litre water reservoir with on/off valve.
- Mounting for ultrasonic flaw detector.

NOTE – 4 probe and 8 probe trolley units and associated electronic multiplexers are also available.

Prices:
Platescan 4 - £2833.50
Multiplexer MUX 1A - £2199.75

MOST PORTABLE ULTRASONIC FLAW DETECTOR CAN BE ACCOMMODATED

ULTRASONIC MULTIPLEXERS AND SEQUENCERS

ULTRASONIC SEQUENCER UNITS
Sequential Switching units for multiple probe operation with ultrasonic flaw detectors and thickness gauges

For applications where several identical ultrasonic tests are required using a fixed group of ultrasonic probes. The sequencer Units switch from probe to probe with a preset dwell time on each test. Operation with most makes of ultrasonic units. Ultrasonic Multiplexers are available where high speed switching at PRF rates is required

General Facilities:

- Available in 4, 8, 12, 16 channels and specials
- Adjustable dwell time on each probe (typically 0.5-30 secs)
- 'Auto' mode with continuous switching
- 'Single' test sequence mode with remote start
- 'Manual' selection of each probe with selector switch
- Remote or front panel start/sweep
- LED indicates which probe is operating
- Slot adjusted limited range balance for each probe
- Muliple pin output for active probe and reading available.

Price Range - £1444 - £2575
Please specify test requirements

MULTIPLEXERS – MUX 1 AND MUX 2

For sequential switching of similar test probes at PRF rate. Standard units in 4 and 8 channels, specials as required with rack mounting options.

General Facilities:

- Portable ultrasonic multiplexers for 4 or 8 channel operation
- Simple 2 cable connection to standard flaw detector
- Applications for manual and automatic inspection requirements
- Individual balance controls to equalize probe sensitivities
- Individual delay controls to obtain coincident signals for varying probe face wear and testing distances
- Additional hand scan probe operating at flaw detector PRF Rechargeable battery or mains power pack
- Option available for multiplexed thickness gauge operation
- Specials and rack mounted options

Prices:
MUX 1a 4 channel - £2715.00
MUX 2 8 channel – £3927.00

FLAWED SPECIMEN

NDE Educational Kits – Level 1

Material	UT Kit		VT Kit		MT Kit		PT Kit		RT Kit		Demo Kit	
Item	Part No		Part No		Part No		Part No		Part No		Part No	
Fe	KTCS86	£928	KTCS87	£928	KTCS88	£928	KTCS89	£928	KTCS90	£928	KTCS91	£928
S/S	KTSS86	£1205	N/A	N/A	N/A	N/A	KTSS89	£1205	KTSS90	£1205	N/A	N/A
Al	KTAL86	£1205	N/A	N/A	N/A	N/A	KTAL89	£1205	KTAL90	£1205	N/A	N/A

Flawed Specimen Sets – Level 2

Material	UT Set		VT Set		MT Set		PT Set		RT Set	
Item	Part No		Part No		Part No		Part No		Part No	
Fe	FSCS01	£1189.00	FSCS02	£816.00	FSCS03	£998.00	FSCS04	£998.00	FSCS05	£1189.00
S/S	FSSS01	£1514.00	N/A	N/A	N/A	N/A	FSSS04	£1207.00	FSSS05	£1514.00
Al	FSAL01	£1623.00	N/A	N/A	N/A	N/A	FSAL04	£1360.00	FSAL05	£1623.00

Standard Flawed Specimens - Magnetic and Penetrant

Item	Part No			Item	Part No			Item	Part No	
SV Plate	MC-01	£194.00		SV Nozzle	MC-09	£542.00		SV Pipe	PC-05	£295.00
SV Pipe	MC-02	£202.00		SV Node	MC-10	£542.00		SV Tee	PC-06	£202.00
SV Pipe	MC-03	£224.00		SV Node	MC-11	£599.00		SV Y	PC-07	£202.00
SV Pipe	MC-04	£250.00		Set 1M	MC-12S	£1639.00		SV Nozzle	PC-08	£493.00
SV Pipe	MC-05	£295.00		SV Plate	PC-01	£194.00		SV Nozzle	PC-09	£542.00
SV Tee	MC-06	£202.00		SV Pipe	PC-02	£202.00		SV Node	PC-10	£542.00
SV Y	MC-07	£202.00		SV Pipe	PC-03	£224.00		SV Node	PC-11	£599.00
SV Nozzle	MC-08	£493.00		SV Pipe	PC-04	£250.00		Set 1P	PC-12S	£1639.00

Standard Flawed Specimens - Ultrasonic

Item	Part No			Item	Part No			Item	Part No	
SV Plate	UC-14	£234.00		SV Pipe	UC-25	£741.00		DV Nozzle	UC-36	£1200.00
SV Plate	UC-15	£275.00		SV Pipe	UC-26	£741.00		SV Node	UC-37	£1504.00
SV Plate	UC-16	£334.00		SV Tee	UC-27	£334.00		SV Node	UC-38	£1566.00
DV Plate	UC-17	£305.00		SV Tee	UC-28	£387.00		Set 2	UC-39	£3833.00
DV Plate	UC-18	£334.00		DV Tee	UC-29	£345.00		Set 3	UC-40	£3110.00
DV Plate	UC-19	£365.00		DV Tee	UC-30	£396.00		Set 4	UC-41	£4386.00
SV Pipe	UC-20	£305.00		SV Y	UC-31	£382.00		Set 5	UC-42	£8791.00
SV Pipe	UC-21	£396.00		SV Y	UC-32	£436.00		Set 6	UC-43	£6139.00
SV Pipe	UC-22	£467.00		SV Nozzle	UC-33	£959.00		Set 7	UC-44	£3799.00
SV Pipe	UC-23	£427.00		SV Nozzle	UC-34	£1200.00				
SV Pipe	UC-24	£550.00		DV Nozzle	UC-35	£984.00				

Standard Flawed Specimens - Radiographic

Item	Part No			Item	Part No			Item	Part No	
SV Plate	RC-50	£234.00		DV Plate	RC-58	£279.00		SV Pipe	RC-66	£404.00
SV Plate	RC-51	£242.00		DV Plate	RC-59	£304.00		SV Pipe	RC-67	£444.00
SV Plate	RC-52	£254.00		DV Plate	RC-60	£333.00		SV Pipe	RC-68	£501.00
SV Plate	RC-53	£286.00		DV Plate	RC-61	£364.00		SV Pipe	RC-69	£689.00
SV Plate	RC-54	£332.00		SV Pipe	RC-62	£272.00		SV Pipe	RC-70	£741.00
SV Plate	RC-55	£393.00		SV Pipe	RC-63	£304.00		Set 8	RC-71	£3956.00
DV Plate	RC-56	£234.00		SV Pipe	RC-64	£323.00				
DV Plate	RC-57	£260.00		SV Pipe	RC-65	£364.00				

Standard Flawed Specimens - Visual

Item	Part No			Item	Part No			Item	Part No	
SV Plate	VC-73	£174.00		SV Pipe	VC-77	£276.00		SV Nozzle	VC-81	£525.00
SV Pipe	VC-74	£179.00		SV Tee	VC-78	£179.00		SV Node	VC-82	£581.00
SV Pipe	VC-75	£224.00		SV Y	VC-79	£179.00		SV Node	VC-83	£581.00
SV Pipe	VC-76	£232.00		SV Nozzle	VC-80	£525.00		Set 9	VC-84	£1503.00

EDDY CURRENT EQUIPMENT

PHASEC 2s
Phase and time base displays, Wide range HP and LP filters
EC tests, conductivity, rotating probe
60Hz to 6MHz 100KHz to 2MHz rotating probe
Single frequency with LC display, 0 – 360 degree phase rotation
PHASEC 2d
Dual Frequency, LC Display
Conductivity and Coating Thickness measurement
Operating Frequency – Normal - 10Hz – 10 MHz,
Rotary - 10KHz – 2MHz, Conductivity - 60KHz
LOCATOR 2s – COMPACT LC DISPLAY EC UNIT
Single channel, single frequency LC display
General Purpose EC crack detection unit
60Hz to 6 MHz in 198 Steps, Conductivity 60 KHz
0 – 360 degree phase rotation
Conductivity and Coating Thickness Measurement
Operates absolute, differential, reflection probes
Box, sector, linear alarms – rate filters – outputs
Storage / recall of setups, record / replay of tests
Several kit options with transit case
Weight 0.94 kg, Dimensions 192mm x 140mm x 55mm
AUTOSIGMA 3000
Compact hand held unit with LCD display
Reads in % IACS or MS/m
0.8% - 110% IACS, 0.45 – 64 MS/m
60 KHz and 500 KHz operating frequencies
Compensation for lift off and temperature
Field interchangeable probes
100 hour alkaline battery life
500 reading data logger with PC connectivity
Weight 0.4kg including batteries
Dimensions 165mm x 74mm x 41mm

AutoSigma 3000

Phasec 2s

Locator 2

A FULL RANGE OF PROBES, CABLES AND ACCESSORIES IS AVAILABLE

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EDDY CURRENT EQUIPMENT

SigmaCheck – Eddy Current Conductivity Meters		
Cat Number	**Description**	**Price**
KISIG001	Kit, Instrument, SigmaCheck Conductivity Meter.	POA
ASIG001	Accessory, Dual Conductivity Reference Standards, Nominal Values 2.5% and 102% IACS.	POA
ASIG002	Accessory, Instrument Stand.	POA
ASIG004	Accessory, Hard Peli 1400 Case with custom shaped foam inserts.	POA
PSIG001	Probe, Conductivity, Dia 13.00mm, Straight, Lemo 5-Way.	POA
ALL05-L05-012-SIG	Accessory, Lead, 5-Way Lemo to 5-Way Lemo, 1.2m.	POA
PSIG002	Probe, Conductivity, Dia 7.00mm, Straight, Lemo 5-Way.	POA
Vantage – Eddy Current Conductivity Meter		
Cat Number	**Description**	**Price**
	Vantage G2 Meter	POA
		POA
		POA

VISUAL INSPECTION

Wohler Inspection Camera Systems	Price
VIS 330 Service Camera with digital meter counter, pan & tilt colour camera head 40mm Ø, push rod 6.5mm Ø, 20m long in plastic case. **Complete inspection set in one compact case. REF: 3672J**	£1550.00
VIS 330 Service Camera with digital meter counter, pan & tilt colour camera head 40mm Ø, push rod 6.5mm Ø, 30m long in plastic case, detachable camera head. **Complete inspection set in one compact case. REF: 3741J**	£1850.00
VIS 340 Service Camera with digital meter counter, pan & tilt colour camera head 40mm Ø, push rod 6.5mm Ø, 20m long in plastic case, detachable camera head. Integrated Digital Recording. Video output by RCA socket for documentation. **Complete inspection set in one compact case. REF: 3725J**	£1790.00

Wohler Inspection System VIS 340

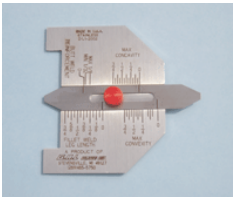
VISUAL INSPECTION

Wohler Inspection Camera Systems	Price
VIS 2000 Video Inspection System Advance Set for optical control and inspection of vertical flue gas lines from above. Colour monitor, leather protective bag with glare protection and shoulder belt, Pan & tilt camera head, rubber collar as impact protection, 20m of camera cable with metric marking, cable winder, power pack and Aluminium Transport case. **REF: 7919.**	£3830.00
VIS 2000 Pro Standard Set also available.	POA
VIS 2000 Pro Video Inspection System Professional Set, Professional set colour TFT monitor with 1GB CF card, leather protection bag with shoulder straps, Pan & tilt camera head, Viper with digital meter counter and stand. 20m GRP rod 7mm Ø, Camera roller guide with protection, XXL Aluminium Transport Case. **REF: 6835.**	£3790.00
VIS 340 Also available with Integrated L24 Locator. **Complete inspection set in one compact case. REF: 3745.**	POA
Miniature colour Camera Head with leather case. 26mm Ø with flexible adapter for use with VIS2000/2xx/3xx series. **REF: 7817.**	£530.00
Centering Brush, 20cm Ø with 6 brushes. Centers the GRP camera rod to guide the camera head for use with VIS2000/2xx/3xx series. **REF: 3850.**	£56.00
Guidance Ball for flex part of camera push rod, improves ability to go through bends. **REF: 3634.**	£30.00
Protection Sleeve for VIS3XX series. **REF: 3682.**	£53.00
Glass Dome for VIS3xx series. **REF: 3674.**	£70.00
Replacement Plastic Domes (Pack 10) for VIS3XX series. **REF: 3675.**	£31.00
VIS2000/Pro Colour Camera Head. **REF: 7806.**	£930.00
VIS2000/Pro 10m long Camera Cable with metric marking. **REF: 8636.**	£114.00
VIS2000/Pro 20m long Camera Cable with metric marking. **REF: 9172.**	£161.00
VIS2000/Pro 30m long Camera Cable with metric marking. **REF: 7812.**	£203.00
VIS2000/Pro 50m long Camera Cable with metric marking. **REF: 7845.**	£255.00
VIS2000/Pro GRP Camera Rod, Black, Flexible 6mm Ø, 5m long. **REF: 7821.**	£339.00
VIS2000/Pro GRP Camera Rod, Black, Flexible 6mm Ø, 20m long. **REF: 7818.**	£390.00
VIS2000/Pro GRP Camera Rod, Black, Flexible 6mm Ø, 30m long. **REF: 7819.**	£420.00
VIS2000/Pro GRP Camera Rod, Red, Stiff 7mm Ø, 5m long. **REF: 7305.**	£357.00
VIS2000/Pro GRP Camera Rod, Red, Stiff 7mm Ø, 20m long. **REF: 7829.**	£400.00
VIS2000/Pro GRP Camera Rod, Red, Stiff 7mm Ø, 30m long. **REF: 7306.**	£430.00
Full Wohler camera range, spares and accessories available	

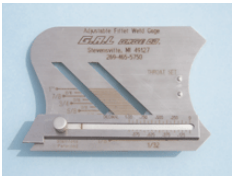
Wohler Inspection System VIS 2000

WELDING GAUGES

Gauges	
Model	**Price**
“HI-LO” Weld Gauge (GAL)	£167.15
Adjustable Fillet Weld Gauge (GAL) (IMPERIAL OR METRIC AVAILABLE)	£115.00
“HI-LO” Single Purpose Weld-Deerman Gauge	£47.85
V-WAC Gauge (IMPERIAL OR METRIC AVAILABLE)	£47.20
WTPS Weld Gauge With Calibration Block	£96.20
Fillet Weld Gauge Set (IMPERIAL OR METRIC AVAILABLE)	£39.80
Welding Institute Welding Gauge (Formerly Cambridge Gauge)	£69.00
AWS Weld Gauge	£47.40
Thorpe Pipe Pit Gauge	£70.00
Weld Profile Needle Gauge 5” Metal	£12.00
Skew-T/Calculator Fillet Gauge	£207.00



AWS Weld Gauge



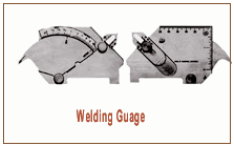
Adjustable Fillet Weld Gauge

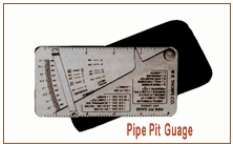
WTPS Weld Gauge

Single Purpose Welding Gauge

V-WAC Gauge

Weld Fillet Gauge Sets





COATING THICKNESS GAUGES

Coating Thickness Gauge		
Cat Number	**Elcometer**	**Price**
121 #	Paint Inspection Gauge (P.I.G) prices from	£407.00
124 #	Dial Thickness Gauge	£255.00
211 #	Magnetic Thickness Gauge (Banana) Non-Magnetic on Ferrous 5 ranges available prices from	£210.00
355 #	Digital Coating Thickness Measuring System prices from	POA
SE1000FN Sheen	Ecotest Plus Coating Thickness Gauge FE/Non FE 0-2000Ч$_m$	POA
600F	Minitest 600F (fe) includes Stats and Standard Probe	POA
600N	Minitest 600F (non/fe) includes stats and Standard Probe	POA
600FN	Minitest 600FN (fe and non/fe) includes stats and Standard Probe	POA
6000F DFT	PosiTector 6000 Basic F1	£395.00
6000F	PosiTector 6000 Standard F2	£495.00
6000F	PosiTector 6000 Memory F3	£660.00
	PosiPen A For measurements on surfaces with normal temperatures	£155.00
	PosiTest DFT Paint Thickness Gauge (Combo)	£420.00
Touchstone 2	Coating Thickness Gauge c/w Hall effect sensor, User manual, battery & Carry Case	£300.00
Full PosiTector range available. Details on request		

Calibration Certificate Available P.O.A. (Note this must ordered at same time as unit)

COATING TEST EQUIPMENT

Adhesive Testing		
Cat Number		**Price**
1106 #	Portable Adhesive Tester – Various Scale Ranges From	£535.50
107 #	Cross Hatch Cutter and Adhesive Tape for Cross Hatch Test From	£136.50
108 #	Elcometer Hydraulic Adhesion Tester Tongs 230 volt Euro Plug	£1312.50
108 #	Elcometer Hydraulic Adhesion Tester Tongs 230 volt US Plug	£1312.50
Wet Film Thickness Measurement		
Cat Number		**Price**
115	Stainless Steel Comb – Set 4 in Leather Case	£88.00
	Scale 1 (25-330 microns)	
	Scale 2 (51-457 microns)	
	Scale 3 (51-762 microns)	
	Scale 4 (127-1270 microns) **Also available separately**	£78.50
3230	Wet Film Wheel – Available in following Scales	£203.50
	Scales – 0-50 microns	
	0-250 microns	
	0-500 microns	
	0-1500 microns **Other scale available**	
154	Plastic Comb – Disposable (Box 500) 50-800 microns	£82.50

Calibration Certificate Available P.O.A. (Note this must ordered at same time as unit)

COATING TEST EQUIPMENT – POROSITY / PIN HOLES

Porosity Detection -	Price
PD6 6kV D.C. Holiday Detector c/w shoulder bag, coiled interconnecting lead, test probe handle, universal power pack (including in-car charger), battery charger with 4 x rechargeable batteries, 5m earth lead, drum brush electrode, test voltage calculator and manual incorporating a calibration certificate. (See Data Sheet PD6)	£1140.00
PD6C 6kV D.C. Holiday Detector c/w shoulder bag, coiled interconnecting lead, test probe handle, universal power pack (including in-car charger), battery charger with 4 x rechargeable batteries, 5m earth lead, drum brush electrode, test voltage calculator, pointed probe, 2 x 460mm extension rods, electrode shoe, screwdriver and 250mm phosphor bronze brush electrode and manual incorporating a calibration certificate all contained in a robust transit case. (See Data Sheet PD6C)	£1550.00
PHD 1-20kV D.C. Holiday Detector c/w shoulder bag, battery, built-in charger (automatic mains selection), mains charger lead, earht lead, test probe handle (with HV leadl and pressure safety switch), and steel drum brush. (See Data Sheet D2)	£1660.00
As above with addition of 150mm conductive rubber electrode, pointed probe, 2 x extension rods (460mm long), earthing magnet, electrode shoe, all contained in a “new-style” robust carrying case. (See Data Sheet D2A)	£1820.00
Pipeline Test Kit. PHD 1-20kV D.C. Holiday Detector c/w shoulder bag, battery, built-in battery charger (automatic mains selection), mains charger lead, trailing earth lead, test probe handle (with HV lead and pressure safety switch), 460mm extension rod, electrode shoe, 250mm phosphor bronze brush electrode. (See Data Sheet D23)	£1720.00
PHD 2-40kV D.C. Holiday Detector c/w shoulder bag, battery, built-in charger (automatic mains selection), mains charger lead, earth lead, test probe handle (with HV lead and pressure safety switch), and steel drum brush. (See Data Sheet D4)	£1900.00
As above with addition of 150mm conductive rubber electrode, pointed probe, 2 x extension rods (460mm) long, earthing magnet, electrode shoe, all contained in a “new-style” robust carrying case. (See Data Sheet D4A)	£2100.00

PHD 1-20 / PHD 2-40 Pipeline Test Kit

PHD 6Kv Pin Hole holiday Detector

PHD 6Kv Pipeline Test Kit

PHD 2-40 / PHD 1-20 Pin Hole / Holiday Detector

Miscellaneous Electrodes

Silicone Rubber Electrodes

Accessories

Phosphor Bronze Electrodes

POROSITY DETECTION

Compact Porosity Detection		Price (£)
Model DC15	15kv Industrial Kit	P.O.A
Model DC15	15kv Pipeline Kit	P.O.A
Model DC30	30kv Industrial Kit	P.O.A
Model DC30	30kv Pipeline Kit	P.O.A
Model Pulse 20	20kv Industrial Kit	P.O.A
Model Pulse 20	20kv Pipeline Kit	P.O.A
Model Pulse 40	40kv Industrial Kit	P.O.A
Model Pulse 40	40kv Pipeline Kit	P.O.A
Model Pulse 60	60kv Industrial Kit	P.O.A
Model Pulse 60	60kv Pipeline Kit	P.O.A
Industrial Kit comprises: Detector with clip-on power pack, Mini-Crest Meter (DC15 and DC30 only), 10hr charger, Probe handle with neon and 2m lead, 60mm Connector for flat brushes, 7m Earth lead with clamp, Fan Brush, 250mm Flat brass wire brush, 450mm Probe extension, Air-operated earphones, Shoulder and Waist Harness, Kit Case, Operating Instructions with conformance certificate.		
Pipeline Kit comprises: Detector with clip-on power pack, Mini-Crest Meter (DC15 and DC30 only), Spare clip-on battery pack, 10hr Charger, Probe handle with neon and 2m lead, 7m Earth lead with clamp, Fan Brush, Coil joiner with 450mm connector, Air-operated earphones, Shoulder and Waist Harness, Kit Case, Operating instructions with conformance certificate.		
DC Inspector		
10kv Inspector Kit		P.O.A
20kv Inspector Kit		P.O.A
Inspector Kit comprises: Detector, Power Pack (20kv inspector only), 125mm Flat Brass Wire Brush or optional fan brush, 7m Earth lead with clamp, Kit Case, Operating instructions with conformance certificate.		
Thin Film Pinhole (Wet Sponge)		
9, 67.5 and 90 v (Selectable) Thin Film Pinhole Kit		P.O.A
67.5 v (Fixed) Thin Film Pinhole Kit		P.O.A
Thin Film Pinhole Kit comprises: Detector, Telescopic Probe handle with sponge, 7m Earth lead and clamp, Kit Case, Operating instructions with conformance certificate.		
Crest Meter (For Calibration)		
DC Model Includes 7m Earth Lead and Clamp		P.O.A
Pulse Model Includes 1m Earth Lead and Clamp		P.O.A
Certification of Crest Meter		P.O.A

CLIMATIC CONDITION MONITORING

Climatic Condition Monitoring		
Cat Number	**Elcometer**	**Price**
113	Magnetic Thermometer indicates the surface temperature of steel and other magnetic materials continuously.	£63.80
114	Dew Point Calculator Celsius (with Fahrenheit conversion)	£38.20
116A	Whirling Hygrometer Spirit Type Celsius Range –5 degree to 50 degree C	£55.60
116C	Sling Hygrometer Range –5 degree to 50 degree C	£68.25
213 #	Digital Thermometer Range –50 degree to +850 degree C Requires Probe – Supplie Extra	£147.15
319	Dew meter c/w Certificate From	£445.50

Calibration Certificate Available P.O.A. (Note this must ordered at same time as unit)

SURFACE PROFILE

Surface Preparation		
Cat Number		**Price**
122	Testex Tape (50Tape Roll Coarse, 0-50 microns) For use with 124 Foil Gauge	£33.00
122	Testex Tape (50 Tape Roll, Extra Coarse, 37-140 microns)	£33.00
122	Testex Tape (50 Tape Roll, Paint Grade, 33-85 microns)	£44.00
123 #	Surface Profile Gauge (Metric or Imperial)	£253.00
124 #	Foil Gauge for Testex Tape (Metric or Imperial)	£255.00
125	ISO Surface Profile Comparator (Shot or Grit)	£99.00
127	Keane-Tator Surface Profile Comparator (Shot, Grit or Sand)	£130.00
129	Rubert Surface Comparator (Shot or Grit)	£99.00
130 #	Salt Contamination Meter SCM400 KIT	POA
223 #	Digital Surface Profile Gauge from	£467.50

Calibration Certificate Available P.O.A. (Note this must ordered at same time as unit)

METAL ANALYSIS

NITON XLt & XLi

- ► Positive Metal Identification – Q.A.
- ► Scrap Metal Analysis Prior To Bidding
- ► Hand-Held Alloy Analyser with Either Minaturised X-ray Tube or AM-241 Radiation Source.
- ► Verification Of Construction Alloys
- ► Aerospace Alloy Grade Identification
- ► Quality Assurance Inspection
- ► Petrochemical Metal Inspection
- ► Fabrication Quality Assurance PMI
- ► Alloy production Stock PMI
- ► Incoming Scrap (Scrap-Sorting)

RMG MINISORT 2

- ► Fe,Ti,Cu and Ni Based Alloy Identification
- ► No User Calibration or Standardisation Required
- ► Easy Hand-Held Operation
- ► Aluminum Alloy Identification
- ► No Cumbersome Trolley
- ► No Wires or Probe Cables
- ► No Gas Bottle or Lines
- ► User Editable Alloy Libraries
- ► Computer Linking for Interrogation
- ► Interchangable Batteries

Further Information, Specifications and Datasheets are Available on Request, Please Call One of Our Offices To Obtain Copies.

INTRINSICALLY SAFE PRODUCTS

Product	Description	Price
A0003900	V100-Ex2 (Standard) Win7pro 32bit, QWERTY, 320GB HDD	£3467.00
A0003904	V100-Ex2 (Standard) Win7pro 32bit, QWERTY, 320GB HDD	£3734.00
A0003908	V100-Ex2 (Standard) Win7pro 32bit, QWERTY, 320GB HDD	£3467.00
A0003912	V100-Ex2 (Standard) Win7pro 32bit, QWERTY, 320GB HDD	£3734.00
AS000630	Ex-GSM 07	£466.00
AS000631	Ex-GSM 07 with camera	£466.00
AS002800	Ex-Pt 720 with carabine and carrying strap (without probe)	£417.65
AS001120	Ex-MP 4 a ***If calibration is required there is an additional cost of £50***	£291.60
AS002093	ISL 400-Ex 110 -230V AC; 50/ 60Hz (zone 1/21)	£350.42
AS002086	ISL 400-Ex 24V - 48V AC 50Hz / DC (zone 1/21)	£340.34
AS002052	Lite-Ex PL 30	£138.66
AS002160	SHL 350-Ex (incl. carrying strap)	£672.27
AS002006	Charger, type LG 300-HVC, (110V-240V)	£166.39
AS002008	Charger, type LG 300 LVC (12/24V DC)	£166.39
AS002050	Lite-Ex PL10	£68.07
AS002035	Lite-Ex PL10 H	£80.00
AS000260	Ex-PMR 1000 with battery, charger set and belt clip	£546.22
AS000280	I.S. Two-Way-Radio Ex-PMR 2000 UHF with battery, belt clip and antenna	£563.03
AS001480	I.S. Multimeter Fluke 28 II Ex (IECEx/ATEX Version)	£915.00
If calibration is required there is an additional cost of £60		

Lite-Ex PL10 H

SHL 200-Ex

SHL 350-Ex

Sensor Temperature Measuring Unit Ex-Pt 720

Mobile Phone X.com 200-Ex

Handheld Radio Ex-PMR 2000

Laptop V100

Torches Lite-Ex 15, 20, 23, 25

HAZARDOUS LOCATIONS

	Class I (Gases and Vapors) In accordance with NEC 500.5 and CEC J18-004	Class II (Flammable Dust of Powder) In accordance with NEC 500.6 and CEC 18-008	Class III (Flammable Fibers or suspended Particles) Divisions in accordance with NEC 500.7 and CEC 18-010
Division 1	Areas containing dangerous Concentrations of flammable gasses, vapors or mist continuously or occasionally under normal operating conditions.	Areas containing dangerous concentrations of flammable dusts continuously or occasionally under normal operating conditions.	Areas containing dangerous concentrations of flammable fibers or suspended particles continuously or occasionally under normal operating conditions.
Division 2	Areas probably not containing dangerous concentrations of flammable gases, vapors or mist under normal operating conditions.	Areas probably not containing dangerous concentrations of flammable dusts under normal operating conditions.	Areas probably not containing dangerous concentrations of flammable fibers or suspended particles under normal operating conditions.

Zone 0	An area in which an explosive air/gas mixture is continuously present or present for long periods.
Zone 1	An area in which an explosive air/gas mixture is likely to occur in normal operation.
Zone 2	An area in which an explosive air/gas mixture is unlikely to occur; but, if it does, only for short periods of time.
Zone 20	An area in which a combustible dust cloud is part of the air permanently, over long periods of time or frequently.
Zone 21	An area in which a combustible dust cloud in air is likely to occur in normal operations.
Zone 22	An area in which a combustible dust cloud in air may occur briefly or during abnormal operation.

INTRINSICALLY SAFE PRODUCTS

Explosion Proof Digital Cameras			
Part No	**Model**	**Description**	**Price**
TP2301XP	ToughPIX 2301XP Digital Camera	(ATEX II 2 G / Ex d IIC T4 Gb certified)	£1420.00
TP2302XP	ToughPIX 2302XP Digital Camera	(ATEX I M2 / Ex d I Mb certified)	£1420.00
TP2303XP	ToughPIX 2303XP Digital Camera	(ATEX I/II 2/M2 G / Ex d Mb Ex d IIC T4 Gb certified)	£1725.00
TP2304XP(4XP)	ToughPIX 2304XP Digital Camera	(CSA Class I, Div.1 B,C,D certified)	£1420.00
TP2304XP(8XP)	ToughPIX 2304XP Digital Camera	(CSA Class I, Div.1 B,C,D certified)	£1725.00
LM300XP	LaserMETER 3000XP	(ATEX / IECEx certified)	£640.00
UT5000	Ultrasonic Tester 5000	(ATEX / IECEx certified)	£1750.00

ToughPIX 2301XP

ToughPIX 2303XP

LaserMETER 3000XP

Ultrasonic Tester 5000

PIPELINE INSPECTION TROLLEY PTU1

Description

The Pipeline Trolley type PTU1 is an electrically driven unit for the conveyance of a single operator into the bore of a pipeline. The unit can be used in pipes with bore diameters from 24 inches upwards.
The unit is fitted with full controls at each end and operates in forward and reverse directions. Inspection lamps are built into both ends of the unit.
The trolley has a microprocessor based speed controller which enables ramp up and ramp down speeds to be factory set and also includes operating interlocks. Electrical and manual brake facilities are incorporated.
The trolley operates on a 24 volt DC rating and incorporates two maintenance free heavy duty rechargeable batteries as standard. Up to eight hours continuous operation is achieved. Lower capacity power sources can be supplied.
Battery condition monitoring with displays are fitted at each end of the unit. Warnings are given for low battery condition. A battery charger is included in the package to give a recharging time of less than 10 hours.
The driven and idler wheels have heavy duty polyurethane tyres. Drive is via a 24V DC motor and gearbox.
The operator working surface comprises rubber covered thick resilient nylon made in three hinged sections. The latter give total access to batteries, drive and storage.
On board storage facilities contain a tool set, fire extinguisher, torch and tow rope. Two - way radios can also be supplied.

Specifications

Minimum pipe diameter:
24 inches
Overall Length. (inc hooks):
1930mm
Width:
400mm
Height (from flat surface):
245mm
Total weight:
110kg with heavy duty batteries
Power Supply:
2 x 12V batteries maintenance free
100 Ah
Charging time:
Less than 10 hours
Driving wheels:
5” Polyurethane tyred
Motor/Gearbox
24V DC with 16:1 Gearbox
Motor current:
11.5 amps max.
Traverse speed:
Variable up to 40 m/min
Built in lamps:
24V 21W
Brakes:
Electrical brake/Defaults on manual brake release
Accessories included:
10Ah battery charger
1kg dry powder extinguisher
Tow rope
Torch
Optional Accessory:
Two - Way radios
Controls (each end):
On/Off/On with lamp switch
Forward/Reverse Control
Speed adjustment rotary control
Battery condition indicator

ULTRASONIC INSPECTION OF HEAT EXCHANGER TUBES

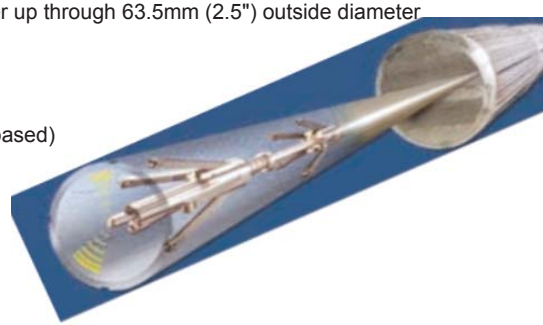
IRIS INSPECTION SYSTEM

Brief description of IRIS ultrasonic principle

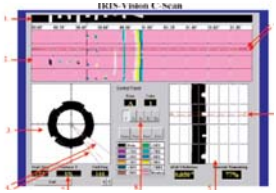
The IRIS 9000 employs an ultrasonic immersion pulse echo technique. The ultrasonic transducer is contained in a test head which fits into and is centred in the heat exchanger tube. The ultrasonic pulses are emitted along a path parallel with the tube axis. These pulses are then reflected by a rotating 45-degree mirror so that they are directed radially onto the tube wall Reflections from the inner and outer walls follow the same path back to the transducer. The time interval between the first echo from the internal surface of the tube and the first echo from the outside surface of the tube can be used to represent the tube wall thickness.
As the mirror rotates, the ultrasonic beam is traversed around the tube circumference and each successive pulse is mapped out as a horizontal scan line on the screen of the IRIS 9000. There are a 192 readings per revolution and 2400 revolutions per minute.
When the probe is advanced along the tube at the optimum inspection rate of 2.54 meters (100") per minute, the ultrasonic pulses paint a continuous helical path on the tube wall ensuring 100% coverage.
The results are the most definitive yet to be invented for the inspection of air cooled and liquid cooled tube bundle heat exchangers.

Outstanding Features

* Self calibrating
* Extremely accurate (+/-.05mm) (.002")
* Tube lengths up to 30 metres (99 Feet)
* All tube sizes from 12.2mm (0.48") internal diameter up through 63.5mm (2.5") outside diameter
* Documents calibration and inspection data on-site
* Probe advanced by encoder drive motor
* Menu driven operating system
* Operates in metric or imperial measurement
* Custom designed for this specific purpose (not pc based)
* ***Reliable and repeatable inspections***



IRIS – Vision C-Scan



NOTE: COUNTRY DEPENDENT SUPPLY
FULL DATA SHEETS AND PRICES AVAILABLE ON REQUEST

LONG RANGE ULTRASONICS

Situations where the system is commonly used include:

- Sleeved road crossings
- Wall penetrations
- Straight runs of pipe where 100% of the volume must be inspected
- Inspecting under many types of supports
- Elevated pipe work
- Inspecting for corrosion under insulation (with minimal insulation removal
- Cryogenic pipe work
- Sphere Legs
- Jetty lines

Rapid Screening Service for Assessment of Pipe Corrosion

WAVEMAKER™ G3 is a proven, state-of-the-art pipe screening system, which is used to rapidly locate internal and external corrosion and other defects.

The pipe screening system allows long lengths of pipes in difficult to access areas to be quickly screened for corrosion or other defects.

PIPELINE INSPECTION

Operating on pipes of 2 inches or greater diameter, the **WAVEMAKER™ G3** system employs lightweight transducer rings to send guided ultrasonic waves up to 50m in each direction along the pipe.

Sophisticated software routines help categorise reflections from changes in the cross section of the pipe. **WAVEMAKER™ G3** therefore gives 100% volumetric screening of up to 100m of pipe from the transducer ring location.

The **WAVEMAKER™ G3** system can generate both torsional and compressional waves. This means that the inspection can be performed on both gas and liquid filled pipes **without taking them out of service** and with minimal surface preparation. New application areas are continually being developed.

General Specifications

- Package supplied - Guided Wave System complete with Transducer rings, technician
- Pipe diameter range - 1” to 80”+ outside diameter
- Transducer Rings - Fixed rings up to 8” diameter, Flexible rings from 8” to 50” diameter
  2 to 4 integral rings of transponders per ring dependant on required sound wave modes
- Pipe Clearance - 3” clearance all round required of application of Transducer Ring
- Pipe Lagging - Lagged, un-lagged and painted pipes can be inspected
- Lagging Removal - Lagged pipes require the removal of a circumferential band up to 150mm wide
- Set Up Time - Typically 15 minute where pipe insulation is removed
- Range of Test - Typically 20m to 100m
- Reporting of Results - Immediate on line interactive reporting of each test
  Site photographs and sketches can be included

SERVICE AVAILABLE WORLDWIDE

Unmanned Aerial Vehicle Solutions

available for sale or rental with operator

Unmanned Aerial Vehicles or UAV's for short, are an innovative solution for aerial inspection, providing a stable platform for still images, video or thermal inspection. With rapid deployment and cost effective to operate, giving a almost immediate return on investment.

Our standard range of solutions utilise airframes made from commercial grade aircraft materials, and industry leading flight control systems. We cater for cameras from 250g to just over 1.5kg and can supply flight and software training as part of your package.

Radio controlled Unmanned Aerial Vehicles, have come a long way from just being a hobby radio controlled aircraft. This has been made possible by the advancement of commercial grade flight control systems that are used in all our UAV offerings.

UNMANNED AERIAL VECHICLE

The flight control system utilises an integrated GPS for position hold along with state of the art 3 axis gyros for unparalleled stability. UAV's are not only simple to operate but can also be flown in wind speeds of up to 17mph and maintain a vertical hold of +- 0.5 metres and +- 2.0 metres horizontal in temperatures ranging from -5C to +60C.

Safety first. All our UAV solutions have built in fail-safes. This includes engine redundancy* full loss of radio signal** and redundant power supplies.

For more information please contact 01642 555 575
sales@ndtgsl.co.uk

*Single engine failure in six rotor configuration, 2 engine failure in 8 Engine configuration.

** In the event of a full radio control failure the flight control system will initiate an automated return to home and autonomous landing at the original point of takeoff.

PIPE WALL / TANK WALL SCANNERS

Pipescan is an easy to use, cost effective, portable magnetic flux leakage inspection system for the detection of random internal corrosion in pipe runs. The latest magnetic material coupled with unique mechanical designs enables coverage of all pipe diameters from 50mm to 2.4 metres with a limited number of scanning heads. Unlike some inspection methods, MFL is not affected by product flowing through the pipe runs so surveys can be carried out both on-line and off-line. Use of Pipescan, with its high probability of detection, to locate actual internal corrosion, coupled with A scan ultrasonic monitoring of corrosion growth, provides a cost effective accurate system for the determination of plant integrity.

- Pipe diameters from 50mm – 2.4m
- Fixed/adjustable/ Circumferential scan heads available
- Separate battery operated light weight electronic module

Scorpion BP Option is a rugged remote access crawler designed to allow cost effective ultrasound thickness measurements on above ground ferro-magnetic structures. The Scorpian system comes in two options, dry coupled (DCP) or irrigated (BP).
The remote access crawler comes supplied with an irrigated dual 5MHz transducer fed from a pressurised stainless steel reservoir. Complete with any ultrasonic system, a 30 metre umbilical cable with water feed allows access to the top of the highest storage tank for remote access measurements. Powered by Sitemaster 30 battery pack the system is capable of 8 hours continuous operation on a single charge.

- Pressurised water supply
- Remote operation with height restrictions
- 12VDC self contained system

Scorpion DCP Option is a rugged remote access crawler designed to allow cost effective ultrasound thickness measurements on above ground ferro-magnetic structures. The remote access crawler uses a unique "Dry Coupled" wheel probe eliminating the need for traditional couplant. This allows the crawler to travel vertically, horizontally or even inverted whilst still fully functional. Compatible with ANY ultrasonic system, a 50 metre umbilical cable allows access to the furthest point of most structures without the need for scaffolding. Powered by the Sitemaster 30 battery pack, the system is capable of 8 hours continuous operation on a single charge.

- Unique dry coupled wheel transducer
- Remote operation with NO height restrictions
- 12VDC self contained system

PRICES AND INFORMATION AVAILABLE ON REQUEST

TANKFLOOR SCANNERS / MAPPING UNITS

The **FloormapVS** inspection system uses advanced magnetic flux leakage technology housed in an ergonomically designed motorised scanner. The on-board ruggedised, weatherproof computer uses touch screen. Data acquisition and analysis, as well as data reduction, is carried out in real time resulting in only useful information being stored to the hard drive. Graphical reporting software allows the operator/client to view all corrosion, filter results to identify areas of immediate concern and produce pre-formatted hard copy reports as well as the electronic version.

- Advanced magnetic flux leakage technology
- Ruggedised touch screen computer
- Real time data acquisition and analysis
- Hard copy & Electronic graphical reporting.

The **MFL 2000** is a high-speed, motorised magnetic flux leakage scanner capable of inspecting between 5000-8000 square feet per shift. The ergonomic design coupled with the latest magnetic technology have resulted in an easy to operate, accurate, reliable and cost effective inspection tool.
The motorised scanner has an auto-stop system, which ensures any defect above the operator adjustable threshold is identified. All controls are situated in a recess at the top of the unit allowing easy viewing and operation whilst being protected against accidental adjustment.

- High speed, Cost Effective Inspection
- Easy to use ergonomic design
- Minimal maintenance requirements
- Automatic defect detection system

The **Handscan** system is designed to compliment the full sized scanners, MFL 2000 and Floormap 2000. Even in such a small configuration the latest generation of permanent magnets enable localised magnetic saturation of the floor area under test. Signals from corrosion, above the operator controllable threshold, are displayed as both a visual and audible alarm. It's low profile and extendable handle allow scanning in otherwise inaccessible areas of storage tanks such as the shell to annular area and under pipe work or heater coils.

- Latest generation permanent magnet technology
- Easy to use, cost effective inspection tool
- Low profile with extendable handle
- Separate battery operated light weight electronic module

PRICES AND INFORMATION ARE AVAILABLE ON REQUEST

NDT EQUIPMENT SERVICES LTD. GLOBAL

NDT GLOBAL SERVICES

EQUIPMENT HIRE

&

CALIBRATION

PRICE GUIDE

Please confirm availability and price before committing your purchase order.

Should the specific equipment that you require not be listed in the following pages, please contact us.

Our stock inventory changes daily.

GENERAL IN HOUSE
CALIBRATION INCLUDING:

- ULTRASONIC SETS
- RADIATION MONITORS
- X-RAY EQUIPMENT
- EDDY CURRENT
- MPI
- GAMMA SYSTEMS
- MOST NDT AND INSPECTION EQUIPMENT

Package Prices for Annual Calibration and Servicing Arranged

On site calibration

MPI Systems – On site calibration and servicing.
Current and Field Calibrations. Full Test Reporting.

X Ray Systems – On site service / calibration of fluoroscopic cabinets, in line systems, exposure room systems and portable X ray systems.

Ultrasonic Scanning Tanks

- Calibration of disc tanks to RPS 705, CSIM-1 and equivalent specifications.
- Calibration of bar tanks to RPS 707 and equivalent specifications.

AUTOMATED INSPECTION SYSTEMS

SERVICE / CALIBRATION CHARGES

If Your Equipment is Not Listed Please Contact Us For Latest Stock List and Prices

Equipment	Type	Price
Ultrasonic Flaw Detectors	USM2, USK6, USK7/7B/7S/7GB, USK8/8B, SS100, SS110, DSL 104, B&W 1011,UFD7A	£100.00
	SS120, SS130 , RS125.	£115.00
	Epoch II / III /LT, USK7D, USN50/50L, USN52	£115.00
	USM23/23EX,USM25,USM35,USN52L/52R,USN50D,USL32	£147.00
	Masterscan UFD300/330, USD10, USN58R, USN60, SS140	£168.00
	Krautkramer USIP12, EPOCH 4/4B	£200.00
Thickness Meters	DME range, MX3	£74.00
	DL26 Etc	£79.00
	Comparagauge, 37DL +	£89.00
	Nova Precision	£137.00
P.A.T units	Only with Service or Calibration	P.O.A
Sound Level Meters		£158.00
Holiday Detectors	Most Types	£74.00
Electromagnets	Calibration, Refurbishment and PAT Tested	£42.00
Permanent Magnets	Calibration, Refurbishment and Recharged	£42.00
Portable MPI Sets	Up to 1200 Amps	£53.00
	1200 – 2000 Amps	£58.00
	Above 2000 Amps	POA
MPI Sets Bench Type	Up to 2000 Amps	£95.00
	2000 – 5000 Amps	£137.00
UV Lamps	New bulb may be required	£55.00
Black / White Light Meters	Combined	£126.00
	Single	£84.00
Clamp Meters	Up to 1000 Amps	£68.00
Clamp Meters	Up to 2000 Amps	£74.00
Radiation Monitors		£53.00
Digital Thermometers	Excluding Probe	£42.00
	Probe 0 & 100 Points	£16.00
	Probe 0 – 450C	£23.00
Densitometers	Most Equipment	£37.00
Electrode Ovens	Local or in house 1 – 2	£53.00
	Local or in house 3 – 6	£47.00
Hardness Tester		£58.00
Magnetometer	Dial Type	£26.00
Paint Coating Meter	Analogue	£37.00
	Digital	£47.00
X-ray Panel	Including PAT test and safety check	£95.00
X-ray Head Output Test	Including radiograph	£84.00
Bay Gamma Alarm	In house calibration	£53.00
660 Container	Full service issue certificate	£84.00

HIRE EQUIPMENT

Description		Standard 1-8 Weeks
X – Ray Unit	160KV Half Wave	£147.00
X – Ray Unit	200KV Half Wave & 300KV Half Wave	£183.75
X – Ray Unit	160KV CP	£341.25
X – Ray Unit	100KV CP	£288.75
UT Set	USK6/USK7	£89.25
UT Set	SS100/UFD7	£57.75
UT Set	USN50 Digital Unit	£136.50
UT Set	Epoch III	£183.75
UT Set	Sonatest 010	£225.00
Thickness Meter	DM2 – DM3 etc.	£75.00
Thickness Meter	Digital MX3	£78.75
Thickness Meter	Cygnus 1 Intrinsically Safe Unit	£99.75
Thickness Meter	Cygnus 1 Underwater Safe Unit	£99.75
Thickness Meter	DL26 with Software	£157.50
Paint Meter	Digital 256 Type	£52.50
Paint Meter	Other Digital / Analogue	P.O.A
EC Unit	Hocking 2200, Multi Frequency Eddy Current Unit	£262.50
Metascop		£105.00
Iplex Videoscope	6mm dia x 5m long	£183.75 p/day
		£724.50 p/week
Wohler VIS 220	Inspection Camera System	£105.00 week
Wohler VIS 2000Pro	Inspection Camera System	£262.50 week
Holiday Detectors		£75.00
Wet Sponge Detector		£31.50
Paint Inspection Kit	Whirling Hygrometer, Digital Thermometer, Film Combs, Low Cost Coating Meter, Dewpoint Calculator	£78.75
Weld Viewers		£36.75
Crack Microgauge		£262.50
Digital Thermometers		£31.50
UV Lamp		£47.25
Hardness Tester	Dynapocket	£105.00
Ferrite Meter – Fisher Ferritscope		£99.75
Sound Level Meter		£52.50
MPI Set		£68.25
Electromagnet		£52.50
Digital Cover Meter		£99.75
C.A.T. Detector	Complete with gen	£63.00
Pull – Off Tester		£73.50
Gauss Meter		£73.50
Chart Recorder		£84.00
Densitometer	DDS2	£21.00
Tank Scanner	MFL Floormap System	£236.25 p/day

EXTENSIVE RANGE OF REFURBISHED EQUIPMENT AVAILABLE

STOCK CONSTANTLY CHANGING

A range of serviced and calibrated equipment is usually available for sale.

X-Ray Equipment

100Kv – 320Kv CP Units

100Kv – 300Kv Portables

Panoramic / Directional Radiation Monitors

Film Processing Units

RTR Systems

Ultrasonic

Flaw Detectors – Analogue / Digital
Thickness Gauges – All Types

Optical

CCTV Systems

Fibrescopes

Gamma Equipment

Gamma Containers

Windout Systems

Eddy Current

Phase Display Units

Meter Display Units

Dye Pen / MPI

Die Penetrant Lines

Magnetic Benches

Portable Magnetic Benches

Field Strength Meters

General

Grade Sorters, Gas Detectors, Holiday Detectors and Tachometers

Please contact 01642 555 575 or sales@ndtgsl.co.uk
with your specific requirements.
Equipment can also be sourced.
We also purchase equipment, which you may have for disposal.

ULTRASOUND VELOCITIES OF SOME

COMMON MATERIALS

MATERIAL	ULTRASOUND VELOCITY	
	INCHES / µ SEC	METRES / SEC
ALUMINIUM	0.250	6350
BISMUTH	0.086	2184
BRASS	0.173	4394
CADMIUM	0.109	2769
CAST IRON	0.180	4572
CONSTANTAN	0.206	5232
COPPER	0.184	4674
EPOXY RESIN	0.100	2540
GERMAN SILVER	0.187	4750
GLASS, CROWN	0.223	5664
GLASS, FLINT	0.168	4267
GOLD	0.128	3251
ICE	0.157	3988
IRON	0.232	5893
LEAD	0.085	2159
MAGNESIUM	0.228	5791
MERCURY	0.057	1448
NICKEL	0.222	5639
NYLON	0.102	2591
PARAFFIN	0.087	2210
PLATINUM	0.156	3962
PLEXIGLASS	0.106	2692
POLYSTYRENE	0.092	2337
PORCELAIN	0.230	5842
PVC	0.094	2388
QUARTZ GLASS	0.222	5639
RUBBER, VULCANISED	0.091	2311
SILVER	0.142	3607
STEEL, MILD	0.233	5918
STEEL, STAINLESS	0.223	5664
STELLITE	0.275	6985
TEFLON	0.056	1422
TIN	0.131	3327
TITANIUM	0.240	6096
TUNGSTEN	0.210	5334
ZINC	0.166	4216
WATER	0.058	1473

OTHER SAFETY AND DETECTION DEVICES

Gas Detection Tubes

We sell a full range of Draeger, Rae and MSA Colourmetric tubes for the detection of over 500 different gases and vapours. Ideal for compliance with COSHH legalisation and emission monitoring.

Cable Location

Metal detectors and Cable Avoidance Tools with a range of depths available, as well as innovative ground radar products.

Gas Detection

Portable gas detection for the monitoring of single or multiple gases simultaneously. Models can include up to 5 gases at once, data logging and integrated pumps for remote sampling.

Air Movers & Ventilation

We offer a selection of air-moving equipment suitable for all environments; all with various capabilities to ensure you have the right equipment with enough capacity to suit your needs.

Breathing Apparatus

A range of breathing apparatus for use when working in or escaping from hazardous environments where fire, smoke or toxic gases may be present.

Airline

Airline trolley systems are ideal for use where extended duration of BA is required. Designed to work from a compressor or cylinders and with either 50 or 100 metre hose lengths.

Lighting

Our range of ATEX approved safety torches, hand lamps and cap lamps are suitable for use in all industries and are available as dry cell or re-chargeable units.

Tripods

Lightweight, easy to erect tripods with galvanised tubular aluminium, and telescopic legs, designed for strong and stable recovery.

Chemical Suits

Available in a range of materials and styles, including combi-splash suits and full encapsulation for internal breathing apparatus by leading manufactures Respirex and Draeger Safety.

Fall Arrest

A range of robust fall arrest and retrieval devices designed to be reliable in all environments in which controlled entry or fall arrest may be required. Working at heights equipment also available.

Harnesses

A comprehensive stock of harnesses are available for working at heights as well as for confined space entry / rescue.

Road Furniture

We can supply a range of specialist temporary traffic products made from reflective PVC including roll up road signs and fold up barrier systems.

PORTABLE X-RAY EQUIPMENT

Portable X-Ray Equipment **SITE - X**

NDT Global Services offer a complete range of portable x-ray equipment from ICM. Both Directional and Panoramic.
ICM offer some of the worlds' most advanced portable half wave x-ray units with a large range of kV outputs to choose from. These range from 160kV, to an all-new 360kV. These are exclusively available through NDT Global Services and their agents (Country Dependent).
NDT Global Services also offer their best selling range of crawler tube and control panels, compatible to bolt straight on to your existing crawler (subject to confirmation, some minor adjustments may be required)

200

225

250

300

320

360

SITE X - PORTABLE X RAY SETS - DIRECTIONAL

NORMALLY OPERATING WITH STANDARD CONTROL UNIT SCU 286

X RAY GENERATORS-

D 1603	-	160kV, 1-3mA,	FOCAL SPOT 0.8mm X 0.8mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 2008	-	200kV, 1-8mA,	FOCAL SPOT 0.8mm X 0.8mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 2258	-	225kV, 1-8mA	FOCAL SPOT 2.5mm X 2.5mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 2508	-	250kV, 1-8mA	FOCAL SPOT 2.5mm X 2.5mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 3006	-	300kV, 1-6mA	FOCAL SPOT 2.5mm X 2.5mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 3206	-	320kV, 1-6mA	FOCAL SPOT 2.5mm X 2.5mm DIRECTIONAL ANGLE BEAM 60° X 40°

ALL UNITS FEATURE

- 100% DUTY CYCLE AT 40°C AMBIENT TEMPERATURE
- A MICROCONTROLLER BOARD WITH TRUE kV AND mA MEASUREMENTS
- WORKING AMBIENT TEMPERATURE: 25°C to 70°C
- A 700mm FFD TELESCOPIC CENTERING DEVICE
- TWO (2) GUARD- RINGS (TOTAL 3.6kgs)
- A BUILT IN CAROUSEL WITH ONE DIAPHRAGM 10 X 48cms (2 OPTIONAL)+ LEAD CAP (NOT D1603 & D2008)

WEIGHTS

- D1603 - 8kgs
- D2008, D2258, D2508, - 27kgs
- D3006 - 29kgs
- D3206 - 34kgs
- PAIR OF GUARD - RINGS 3.6kgs EXTRA

DIMENSIONS (WITH GUARD RINGS)

- D1603 - 120mm DIA. X 530mm HIGH
- D2008, D2258, D2508 - 346mm DIA. X 771mm HIGH
  D3006, D3206 - 346mm DIA. X 831mm HIGH

160

X-RAY EQUIPMENT

SITE – X - PORTABLE X RAY SETS - PANORAMIC

NORMALLY OPERATING WITH STANDARD CONTROL UNIT SCU 286

X RAY GENERATORS

C2007-	200kV,	1-7mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)
C2257-	225kV,	1-7mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)
C2505-	250kV,	1-5mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)
C3005-	300kV,	1-5mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)
C3205-	320kV,	1-5mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)

ALL UNITS FEATURE:

- 100% DUTY CYCLE AT 40°C AMBIENT TEMPERATURE
- A MICROCONTROLLER BOARD WITH TRUE kV AND mA MEASUREMENTS
- A EMR (BEAM HOMOGENEITY) MICROCONTROLLED REAL TIME SYSTEM
- WORKING AMBIENT TEMPERATURE: - 25°C to 70°C
- FULLY LEAD SHIELDED
- TRUE IP65 WEATHERPROOF
- 3 X 700mm FFD TELESCOPIC CENTERING DEVICES
- TWO(2) GUARD-RINGS (TOTAL 3.6kgs)

WEIGHTS:

	-	C2007, C2257, C2505	-	26kgs
	-	C3005, C3205	-	34kgs
	-	PAIR OF GUARD RINGS	-	3.6kgs EXTRA
DIMENSIONS	-	C2007, C2257, C2505	-	346mm DIA. X 771mm HIGH
(WITH GUARD RINGS)	-	C3005, C3205	-	346mm DIA. X 831mm HIGH

STANDARD CONTROL UNIT TYPE SCU 286

WITH KEY FEATURES:

- INPUT LINE FROM 198 TO 264 VAC - 45 TO 66 Hz SELECTOR FREE
- 1kV STEP TUBE VOLTAGE KEYBOARD SELECTION
- 0.1mA STEP CURRENT TUBE KEYBOARD SELECTION (MIN. 1mA)
- LINE REGULATION BETTER THAN 0.5%
- KEYBOARD SELECTION OF EXPOSURE FROM 1sec. TO 99MIN. 59sec.
- 16 KEYS POLYESTER TACTILE MEMBRANE KEYBOARD SYSTEM
- 2 X 20 DIGITS HIGH BRIGHTNESS VACUUM FLOURESCENT DISPLAY
- SELECTED AUTOMATED WARM-UP PROCEDURE WITH DATA RECORDING
- DATABASE FACILITIES WITH THOUSANDS OF POSSIBLE RECORDS
- TIME, kV, mA, VOLTAGE AND FREQUENCY LINE DIGITAL METERS
- FULLY COMPATIBLE WITH ALL SITE - X TUBEHEADS
- WORKING AMBIENT TEMPERATURE: - 25°C TO 55°C - TRUE IP65
- OVERALL SIZES 157 (H) X 335 (W) X 520 (D)mm – 13kgs

SUPPLIED WITH:

- A 6.0 kgs – 20m TUBE HEAD / SCU 286 INTERCONNECTION CABLE
- A 1.7 kgs – 10m POWER SUPPLY CABLE
- A BAG FOR CABLES AND ACCESSORIES
- A SET OF SCU286 USERS MANUALS

ACCESSORIES:

0000697	-	HEIGHT ADJUSTABLE STAINLESS STEEL SUPPORT
0000513	-	FLASHING LIGHT WITH 20m CABLE
0000514	-	ALUMINIUM TRANSPORT CASE FOR SITE-X & ACCESSORIES
0000517	-	AUDIBLE / FLASHING LIGHT WITH TRIPOD STAND AND 20m CABLE
0000551	-	SCU286/ PERSONAL COMPUTER INTERCONNECTION CABLE
0000681	-	INTER SCU286 INTERCONNECTION CABLE TO TRANSFER DATA
0000753	-	EXPOSURE TIME COMPUTER SOFTWARE LOADED IN SCU286
0000686	-	SAFETY LEAD CAP COMPLETE
0000541	-	60° X 40° DIAPHRAGM FOR DIRECTIONAL USE (REQUEST ITEM 000686)

FULL TECHNICAL DATA SHEETS AND PRICES FOR ALL X-RAY UNITS ARE AVAILABLE ON REQUEST

SCU286

X-RAY EQUIPMENT

SITE - X PANORAMIC X RAY SETS DC CRAWLERS

NORMALLY OPERATING WITH CRAWLER CONTROL UNITS CCU 186 AND CCU 086 SERIES

X RAY GENERATORS:

C1603	-	160kV, 1-3mA	FOCAL SPOT 4mm DIA. X 0.5mm	ANGLE BEAM 360° (2X20°)
C2004	-	200kV, 1-4mA	FOCAL SPOT 5mm DIA. X 0.5mm	ANGLE BEAM 360° (2X20°)
C2254	-	225kV, 1-4mA	FOCAL SPOT 5mm DIA. X 0.5mm	ANGLE BEAM 360° (2X20°)
C2504	-	250kV, 1-4mA	FOCAL SPOT 5mm DIA. X 0.5mm	ANGLE BEAM 360° (2X20°)
C3003	-	300kV, 1-3mA	FOCAL SPOT 5mm DIA. X 0.8mm	ANGLE BEAM 360° (2X20°)
C3203	-	320kV, 1-3mA	FOCAL SPOT 5mm DIA. X 0.8mm	ANGLE BEAM 360° (2X20°)

THE C1603 IS SPECIFICALLY DESIGNED FOR 6" TO 12" PIPE SIZES

ALL UNITS FEATURE:
- 100% DUTY CYCLE AT 40°C AMBIENT TEMPERATURE
- A MICROCONTROLLER BOARD WITH TRUE kV AND mA MEASUREMENTS
- A EMR (BEAM HOMOGENEITY) MICROCONTROLLED REAL TIME SYSTEM
- WORKING AMBIENT TEMPERATURE: - 25°C to 70°C
- FULLY LEAD SHIELDED
- TRUE IP65 WEATHERPROOF

WEIGHTS:
- C1603 - 8kgs WITH CCU 086 CONTROL UNIT
- C2004, C2254, C2504 - 26kgs
- C3003 - 28kgs C3203 - 34kgs

DIMENSIONS:
- C1603 - 124mm DIA. X 510mm HIGH (INCLUDING CCU 086)
- C2004, C2254,C 2504 - 248mm DIA. X 697mm HIGH
- C2003, C3203 - 248mm DIA. X 757mm HIGH

CCU186

CRAWLER CONTROL UNIT CCU 086 FOR C1603 ONLY

- INPUT LINE FROM 40TO 60VDC TO 48VDC NOMINAL
-1 kV STEP TUBE VOLTAGE KEYBOARD SELECTION
-0.1mA STEP CURRENT TUBE KEYBOARD SELECTION (MIN 1mA)
-DC INPUT VOLTAGE REGULATION BETTER THAN 0.2%
-SEMI-AUTOMATED WARM UP PROCEDURE
-WORKING AMBIENT TEMPERATURE - 25°C to 85°C
-1kg FULLY MOUNTED ON THE BACK OF THE C1603 TUBEHEAD
-OVERALL SIZE: SEE C1603 FULL SIZE ABOVE

SUPPLIED WITH:
-A DISCONNECTABLE POCKET SIZE REMOTE CONTROL UNIT CCU 186R
-A 2.0m INTERCONNECTION CABLE CCU 186R/CC086
-A 2.0m C1603 TUBEHEAD/CRAWLER INTERCONNECTION CABLE
-A SET OF CCU086/CCU086R USER MANUALS

CRAWLER CONTROL UNIT CCU 186

-INPUT LINE FROM 85 TO 140VDC-120VDC NOMINAL
-1 kV STEP TUBE VOLTAGE KEYBOARD SELECTION
-0.1mA STEP CURRENT TUBE KEYBOARD SELECTION (MIN 1mA)
- DC INPUT VOLTAGE REGULATION BETTER THAN 0.2%
-SEMI-AUTOMATED WARM UP PROCEDURE
-FULLY COMPATIBLE WITH ALL SITE-X TUBEHEADS
-WORKING AMBIENT TEMPERATURE - 25°C to 85°C
-4kgs FULLY MOUNTED INCLUDING AN ALUMINIUM COOLER
-OVERALL SIZE: 170(H) X 280(D) X 162 (W) mm

SUPPLIED WITH:
- A DISCONNECTABLE AFTER SETTINGS POCKET SIZE REMOTE CONTROL UNIT
- A 2.0m INTERCONNECTION CABLE CCU186R/CCU186
- A 2.0m TUBEHEAD / CCU186 INTERCONNECTION CABLE
- A SET OF CCU186 USER MANUALS

CONVERSION KIT - FROM " CRAWLER " TO " STANDARD " (NOT C1603)

COMPRISING:
- THE SITE - X SCU 286 STANDARD CONTROL UNIT
- ONE GUARD -RING FOR COOLING SIDE (1.8kgs)
- ONE GUARD - RING FOR CONNECTOR SIDE (1.8kgs)
- 3 X 700mm FFD TELESCOPIC CENTERING DEVICES
- A 6.0kgs – 20m TUBE HEAD / SCU286 INTERCONNECTION CABLE
- A 1.7kgs – 10m POWER SUPPLY CABLE
- A BAG FOR CABLES AND ACCESSORIES
- A SET OF SCU286 USER MANUALS IN ENGLISH
-

FULL TECHNICAL DATA SHEETS AND PRICES FOR ALL X-RAY UNITS ARE AVAILABLE ON REQUEST

X-RAY EQUIPMENT

BATTERY POWERED X-RAY GENERATOR CP1201
Constant Potential Ultra lightweight Battery Powered X-Ray Generator For NDT and Security Inspections

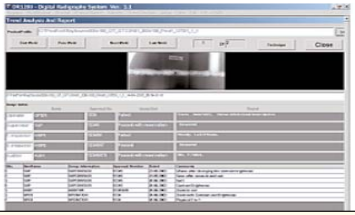
X-RAY GENERATOR CP1201 – 120 KV CONSTANT POTENTIAL
X-RAY GENERATOR CP1601 – 160 KV CONSTANT POTENTIAL
An updated version with improved specification

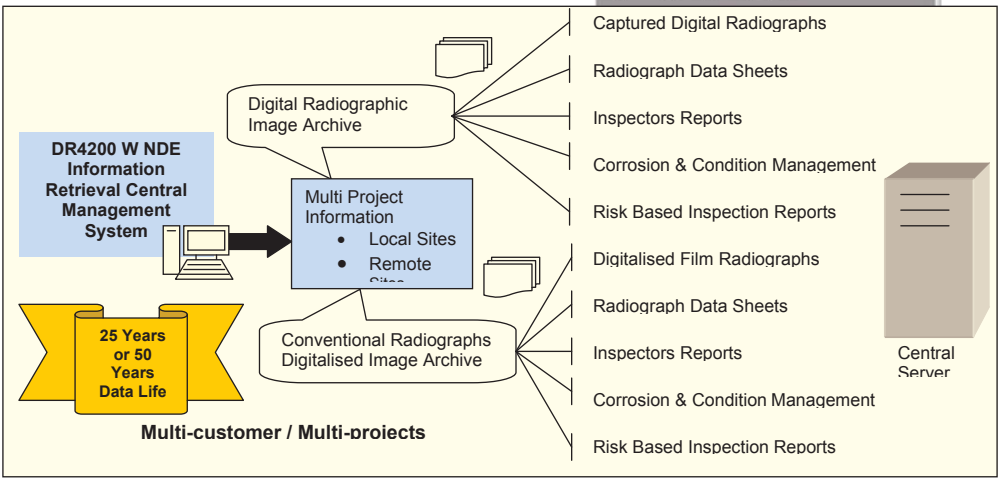
Specifications:	**120**	**160**
Voltage output type:	Constant Potential	Constant Potential
Voltage output range:	60 to 120 kV	60 to 160 kV
Current output:	1 mA	0.5 mA or greater
Max Anode Dissipation:	120 watts	80 watts
Focal spot:	0.25 x 0.5mm	0.4 x 0.8mm
Useful angle beam:	60° x 40°	55° x 40°
Inherent filtration:	equiv. 3.5mm Al.	equiv. 3.5mm Al.
Max steel penetration:	>10mm steel>	21mm steel
Max. continuous exposure time:	600 Sec.	99 Sec.
Internal power supply:	36 VDC Ni-Cd	36 VDC Ni-Cd
Working time till battery low:	6min. at 20°C	6min
Number of shots at full charge:	40 shots	100 shots

Further Information is Available Upon Request.

FLEXIBLE DIGITAL RADIOGRAPHY SYSTEM

Capture images using a reusable flexible imaging plate designed to be positioned and exposed in the same manor as the conventional photographic X-Ray film already familiar to site operators. After exposure the imaging plate is easily scanned to produce the Digital Electronic X-Ray image, which is viewed on the display monitor. Subsequent exposure to a conventional bright light source deletes the image from the plate enabling it to be continually reused.





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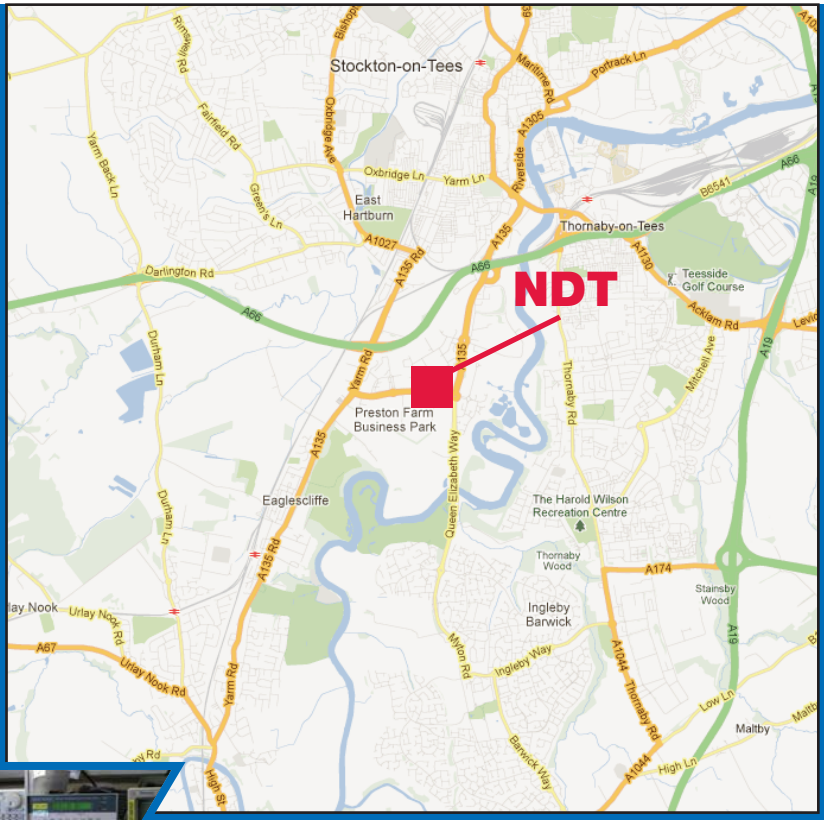

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